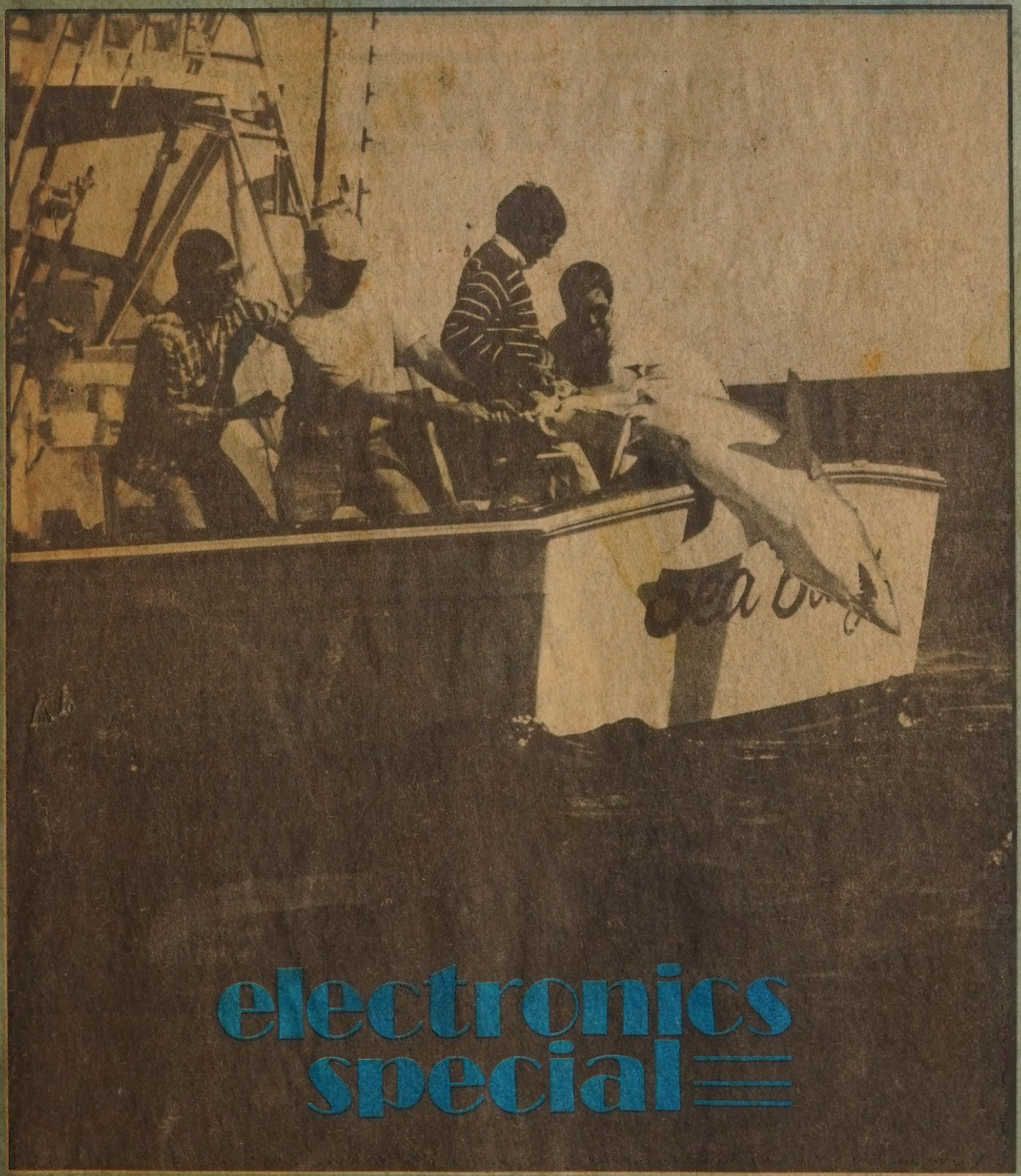
December 8th – December 14th, 1988, No. 49 75¢

THE Fisherman

Long Island, Metropolitan New York Edition



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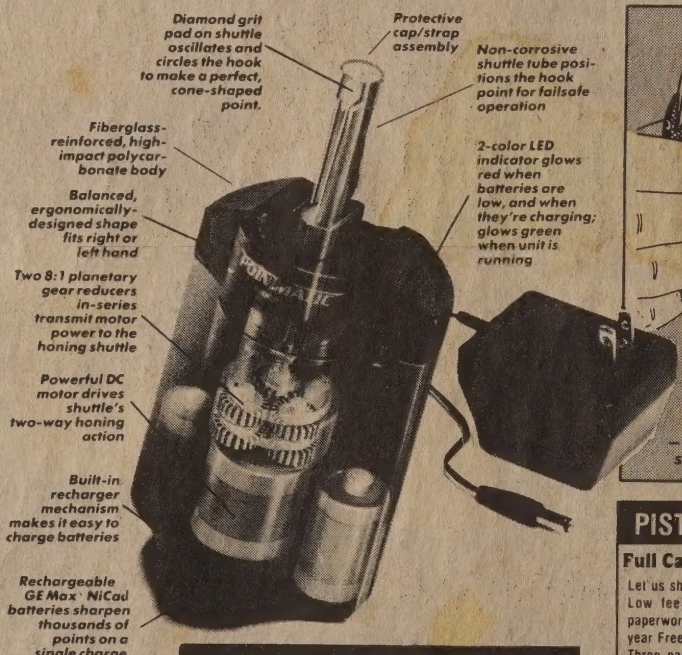
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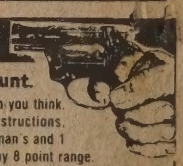

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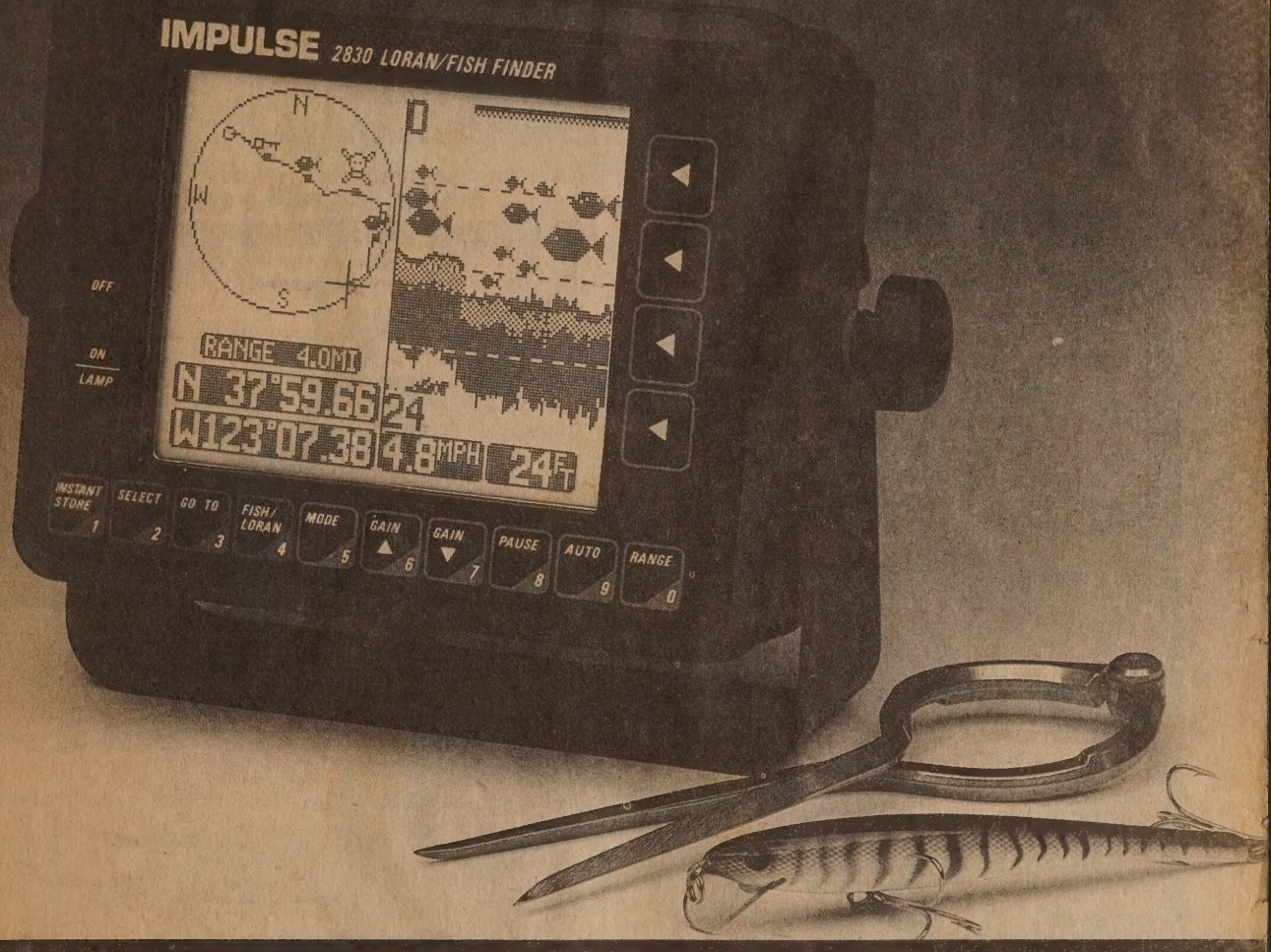

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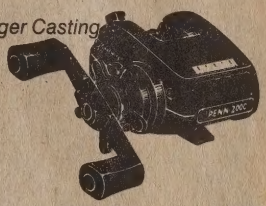

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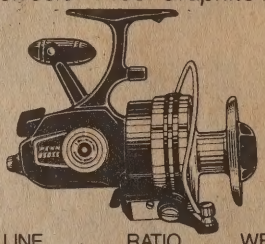

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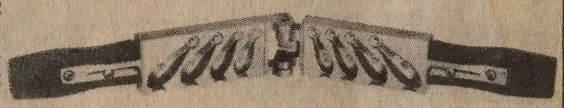

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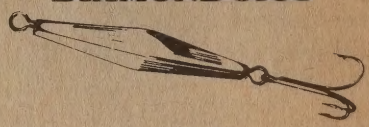

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LONG ISLAND, METROPOLITAN NEW YORK EDITION

Volume 24, Number 49 December 8th, 1988

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ABOUT THE COVER:

Mike Clancy, Jim Coane and crew, hoist a two hundred pound class mako over the transom of Mike's "Sea Baby." The shark was taken near a 25 fathom wreck back in July. this weeks special issue focuses on the use of electronics for locating productive structure such as wrecks, reefs and rockpiles. Photo by John Raguso.

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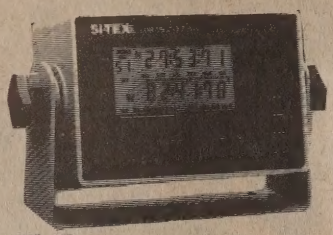

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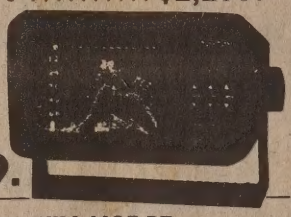

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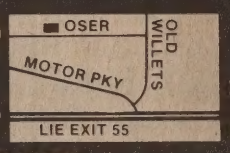

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Long Island, Metro NY Edition
14 Ramsey Road
Shirley, New York 11967
(516) 345-5200

Editor
Fred Golofaro
Advertising Manager
Stu Miller
Receptionist
Jenny Merritt
Field Editors
John Fritz, Marty Garrell
Lorry Mangan, Dick Mermon
John Raguso, Tom Schlichter
William A. Muller
Staff Photographer
Dick Mermon

Corporate Headquarters
14 Ramsey Road
Shirley, NY 11967
President
Richard Reina
Publisher
Richard S. Reina
Associate Publisher
Pete Barrett
Managing Editor
Tim Coleman
Editor
Fred Golofaro
Advertising Director
Gary Caputi
Art Director
Production Manager
Allison Eagle
Production Staff
Tracy Bailey, Robert Bashian,
Pamela Beery, Vickylynn Brueggeman,
Sharon Mongan, David Nicastro
Typesetting
Dayna Erickson
Subscription Manager
Shelly Rodriquez
Comptroller
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Delaware, Maryland, Virginia Edition
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Advertising Manager: Gary Diamond
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The LONG ISLAND FISHERMAN is published weekly, except for two weeks in December by the L.I.F. Publishing Corporation, L.I.F. Building, 14 Ramsey Road, Shirley, NY 11967. Telephone: 516-345-5200. Second Class Postage paid at Shirley, NY $.75 per copy, back issues $1.25 Subscriptions: 50 issues, $20; 100 issues, $38. Photographs and written contributions are welcomed. Unsolicited contributions become the property of The Long Island Fisherman. All contributions to be returned must be accompanied by a self-addressed stamped envelope. All consideration will be given to these requests, however, no responsibility on our part is assumed. Notice of change of address must include both new and old addresses and sent to the Main Office. Allow two to four weeks for change. ISSN 1040-0109.

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Pass It On

BOB "DUSTY" RHODES ASSUMES EDITORIAL POST

Bob "Dusty" Rhodes has been appointed editor of The Fisherman magazine's New Jersey edition. Raised in New Jersey along the upper reaches of Raritan Bay, Dusty's earliest fishing experiences were aboard the Sea Pidgeon and on the waters of the Shrewsbury River. Following graduation from Rutgers University, business opportunities took him to the midwest and southwest where an introduction to freshwater fishing was inevitable.

But briney water leaves its mark, and upon his return to the East Coast, Dusty resumed his earlier saltwater pursuits. Despite his interest in all phases of coastal fishing, Dusty acknowledges his special fascination for the challenges of surf and jetty fishing.

A full-time free-lance writer for more than eleven years, Dusty has been a regular contributor to the Fisherman for several years. He's authored five books including LORAN C: A Fisherman's Guide.

Former editor, Ken Freel, will not be far from the scene, however. He will continue his association with the New Jersey edition in the capacity of field editor.

SALTWATER SPORTFISHING TOURNAMENT DIRECTORS WORKSHOP

Saltwater sportfishing tournaments have grown in size and number as more anglers turn to marine waters for recreation. Millions of anglers spend millions of dollars annually on recreational fishing, including tournament related expenses. Saltwater tournaments have also become big economic attractions for coastal communities because people are drawn to tournament locales to watch the action.

There are two common types of tournaments—those run privately with the goal of making a profit and those run by marine recreational groups which create interest in fishing and break even financially. Each year new tournaments are created by individuals or organizations attempting to capture a share of the competitive sportfishing community and their money.

Putting together a tournament or keeping tournaments running smoothly is no easy task. Successful tournaments require detailed planning and professional-like management. To assist tournament organizors in conducting quality events, the Sea Grant Mid-Atlantic Advisory Services, in cooperation with the Fisherman Magazine, will be conducted a Saltwater Sportfishing Tournament Directors Workshop in Atlantic City, New Jersey on March 18, 1989.

Join Pete Barrett and Fred Golofaro of The Fisherman, outdoor writers and tournament organizers Jeff Merrill and Al Ristori, Sea Grant specialists Bill Gordon, Jim Falk and Jim Murray, and others as they discuss motivations of tournament anglers, insurance and liability concerns, and organization, sponsorship and promotion. Other topics include resource and conservation issues, like tag and release tournaments and tournaments targeting nontraditional or underutilized species, that allow tournament sponsors to achieve their goals and help promote a conservation ethic among the angling community.

This workshop is geared to those running a saltwater tournament or considering one. It will offer information, ideas, discussion, and reference materials including the "Tackling Tournaments" textbook. For registration details write to New Jersey Sea Grant on your club, association, or business letterhead at Rutgers Cooperative Extension, 1623 Whitesville Road, Toms River, New Jersey, 08753, or call (201) 349-1210.

BOTTOM LINE INTRODUCTION NEW SERVICE POLICE WITH 48-HOUR RESPONSE

For the most part, fishermen are careful with their equipment, however, accidents do happen. A hard jolt at the launching ramp, a misplaced step on the boat or a slippery grip can all spell big trouble. But, thanks to a new service policy introduced by Bottom Line, Computrol Inc., fishermen with damaged or malfunctioning units are only 48 hours from being back in the action.

It's important to note, explains Bill Bogan, vice president of marketing and sales for Bottom Line, many problems with electronic fish finders can be solved by referring to the owner's manual to double-check the position and mount of the transducer.

"If the transducer appears to be mounted correctly and not damaged, it's time to get on the phone and give our customer service people a call," he adds.

Owners of Bottom Line units may choose any of three options if their unit is damaged or malfunctioning. First, the owner can call Bottom Line and provide the customer service representative with a current credit card number. A "like new" unit with full factory warranty will be shipped immediately following the telephone call, to arrive within 48 hours. The owner is to ship the malfunctioning or damaged unit back to Bottom Line in the package in which the replacement unit arrived. The credit card slip will be destroyed when the unit is received at the company's headquarters in Boise, Idaho.

The second option eliminates the need to provide Bottom Line with a current credit card number. the owner simply ships the unit to Bottom Line and a replacement unit with full factory warranty is shipped out within 48 hours after the damaged or malfunctioning unit arrives at Bottom Line. Delivery time is projected at

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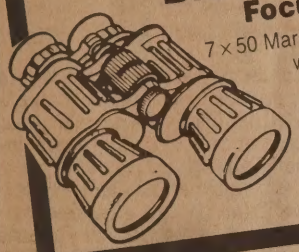

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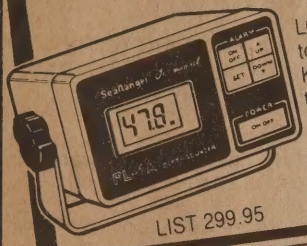

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This battery powered receiver picks up 3 NOAA weather channels.
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98026	Icom M-55 VHF/FM Marine Radio	609.00	**329.88**
29521	Humminbird 4×6 LCD Recorder	975.00	**379.66**
3291	Kransco Slip De-Icer Pump	350.00	**269.88**
318292	Norlantic SB-86 Inflatable Boat	899.95	**679.00**
46633	Ritchie B-51 Compass	49.50	**24.88**

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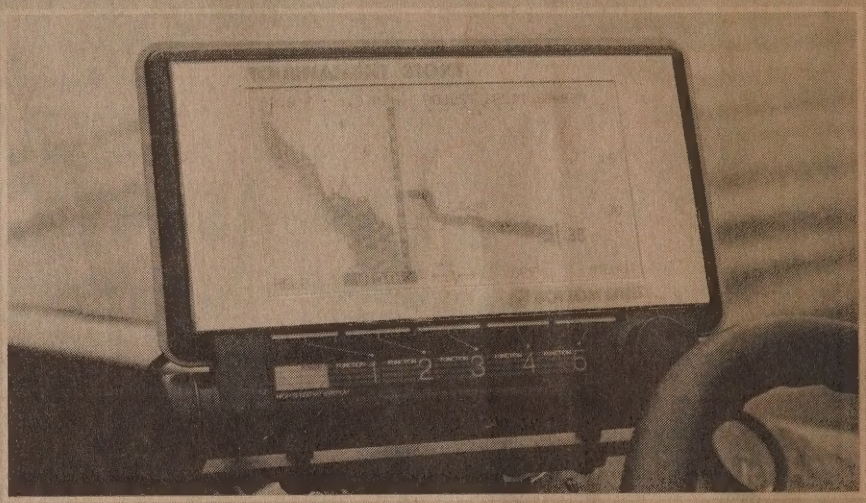
The New Bottom Line Tournament 310XT

It Has The One Thing Serious Fishermen Want

Knowledgeable fishermen know that a fish finder's job isn't really to find fish—it's to find facts. And any decent LCD will give you at least some of the facts you need to predict fish location and activity. But if you want all the facts—if you want everything that the most recent advances in the science of computer sonar can give you—you want the new Bottom Line Tournament 310XT.



More Facts = More Fish

The Tournament 310XT is an on-the-water encyclopedia, with features like a new GreyScale that pinpoints those bottom-huggers and shows changes in bottom composition. And an improved Fish D'Tect system that helps you identify fish.

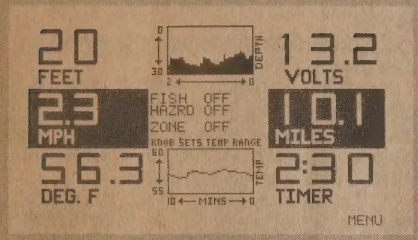
You'll get Split-Screen Freeze Zoom and Bottom Track, to let you freeze and study detail on one side of the screen—and still get a continuous surface-to-bottom display on the other. When you mark a fish, the exclusive Crosshair Cursor will tell you exactly how far down and how far back that fish is. The new Crosshair Cursor Zoom automatically gives you a close-up look at your target.

Brain-Power To Spare

Most LCDs would fry their circuits if they tried to give you GreyScale and Crosshair Cursor and Zoom and Fish D'Tect and all the other fish-finding features of the Tournament 310XT.

This LCD does it without even breathing hard. In fact, there's plenty of microprocessor brain-power left to give you surface temperature. Boat speed. A battery voltage meter. A shallow water/hazard alarm. An adjustable fish alarm that you can set to signal all fish—or just the wall-hangers. A countdown alarm clock to get you to the weigh-in on time. A digital/graphic navigation screen. A cassette recording system that lets you play back everything you've seen—right on the screen. A built-in user's guide that gives you operating tips and instructions—also right on the screen. And a whole lot more.

Everything.



The Tournament 310XT navigation screen

Get The Facts In Any Light, From Any Angle

Thanks to its new XT Screen, the Tournament 310XT doesn't just give you more information—it also makes that information easier to see. Bottom Line's XT technology incorporates super-twist pixels along with a back-lit, extra high contrast display for a picture that is clear, bright, and polaroid-proof, regardless of viewing angle or light conditions.

Add the XT Screen to this unit's superb resolution (30,720 total pixels) and high definition (separates objects as close together as ¾"), and you have an underwater view that almost lets you count the scales.

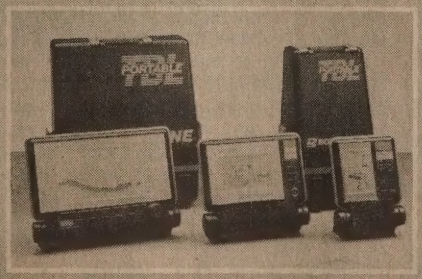
Guaranteed To Improve With Age

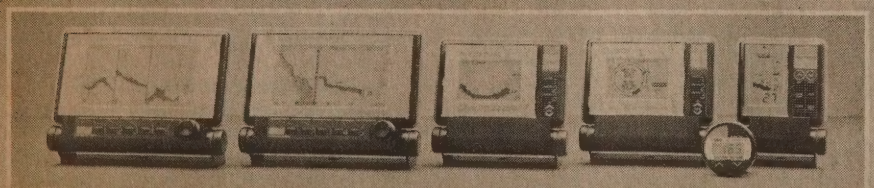
Unlike other fish finders, this year's Tournament 310XT won't be made obsolete by next year's. Because, with Bottom Line's exclusive Software Update Program, you can send in your unit and have its "brain" re-programmed when new features are developed. So your Tournament 310XT will always be what it is now: the smartest, most feature-filled fish finder on the water.

Get All The Facts—Free

Compared to most LCDs, the Tournament 310XT is nothing short of incredible. But there are a few LCDs that can be compared to the Tournament 310XT: other Bottom Line LCDs. To get all the facts on each of them, send for the new Bottom Line catalog. Just mail the coupon below or call our toll-free number: 1-800-456-5432.

But the best place to check out the Bottom Line lineup is at an authorized Bottom Line tackle shop, boat dealer, or sporting goods store. The people there know fishing, and can help you pick out the Bottom Line model that's right for you. And whichever one you pick, you'll be getting more of what the thinking fisherman needs most: facts to think about.





BOTTOM LINE™

See What You've Been Missing

Markin' Muskie

It was cool, breezy, and drizzly—prime muskie weather for late August. The fringe weeds on the outside edge of the deep weed beds were displayed with remarkable clarity on my Bottom Line.

I began trolling with a jointed 11-inch Pikie Minnow. Only a few minutes passed when the Bottom Line fish alarm sounded and a large mark appeared on the Bottom Line screen. In this water, the mark meant muskie! As I made a second pass through the area, the fish was marked again, my lure stopped, and my drag sung out as if snagged—only this snag moved! Muskie!

After an exciting battle, my partner netted the muskie. I unhooked the lure, lifted the muskie for a few quick pictures, and then returned him to the water. While reviving the muskie, we measured him at 53½ inches in length with a 22½-inch girth. A 35-38-pounder!

Anthony J. Scimé
Buffalo, NY

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☐ *Put me in a Bottom Line ad—my "success story" and photograph are enclosed.*

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two days after the replacement unit leaves Boise. The replacement unit with full factory warranty is then kept by the owner in place of the original.

The third option provides the owner with the opportunity to receive his or her original unit back after service work is completed. The owner must ship the damaged or malfunctioning unit to Bottom Line and it will be serviced and returned within three working days after it arrives at the factory.

The maximum charge for repair of the TBL 050 and the TBL 100 is $39.95 and the TBL 210 and Tournament 310 is $59.95. This repair price ceiling stays in place for the life of the unit and applies only to units returned to the factory.

For more information, contact Bottom Line, 5381 Kendall Street, Boise, Idaho 83706. The telephone number for the customer service department is (800) 456-5432 or (208) 376-0500.

HUMMINBIRD ANNOUNCES NEW 24-HOUR SERVICE GUARANTEE

Humminbird Depth Sounders, the nation's leading manufacturer of fish finding equipment, recently set he world's speed record for service by introducing their exclusive 24-Hour Service Guarantee. Now any Humminbird Depth Sounder sent to the Eufaula, Alabama factory will be serviced or repaired and shipped back to the customer the next working day.

And through special arrangements with Federal Express, Humminbird owners can have their units picked up by Federal Express at their home or work, delivered to Humminbird for repairs or servicing, then shipped back to them by Federal Express at no cost to the customer.

"I don't know of any service policy in any industry that even comes close to our 24-Hour Service Guarantee," said Tom Dyer, president and CEO of Techsonic Industries, manufacturer of Humminbird Depth Sounders.

"As a major manufacturer serving a broad consumer base," Dyer continued, "we must back our products unconditionally with superior service. We have always been very committed to service, and we feel that this new policy will set a standard for the industry to follow."

In addition to their exclusive 24-Hour Service Guarantee plus Federal Express pick-up and delivery, Humminbird's Service Policy also includes: a one-year warranty, a limited maximum service charge after the warranty period, a six-month warranty on all service and repairs, and a free depth sounder plus the serviced unit if the 24-Hour turnaround is not met.

FISHERY MANAGEMENT PLAN APPROVED—NEW MANAGEMENT MEASURE FOR SUMMER FLOUNDER IMPLEMENTED

Richard B. Roe, Northeast Regional Director of the National Marine Fisheries Service (NMFS), announced on September 19, 1988, that the Fishery Management Plan for the Summer Flounder Fishery (Plan) had been approved. The Mid-Atlantic Fishery Management Council developed the Plan which has objectives of reducing fishing mortality on immature summer flounder, increasing long-term yield from the fishery, improving uniformity of management between State and Federal waters, and minimizing regulations to achieve these goals. Final regulations will become effecting on November 3, 1988, implementing the following management measures:

1. It will be illegal for those issued a Federal fisheries permit to fish for summer flounder, or to possess or land summer flounder or flounder parts which are smaller than 13 inches in length.

2. If a state has established a minimum size for summer flounder which is larger than 13 inches, the state's size limit will prevail.

3. Foreign fishermen will not be able to take summer flounder.

4. Both commercial vessels and recreational vessels landing more than 100 lbs. (party and charter boats) fishing for summer flounder in Federal waters will have to obtain an annual permit.

5. Those states with more restrictive regulations pertaining to net mesh sizes and minimum summer flounder sizes will be encouraged to maintain them.

6. Three years after the Plan goes into effect, the Council will determine whether it is working to reduce fishing mortality. If it is not working, a 14 inch minimum fish size may be established.

All measures, including the Permit requirement, have been in effect since November 3, 1988.

For further information or copies of the regulations contact Jack Terrill or E. Martin Jaffe at (508) 281-3600, ext. 252 or 272.

NASSAU FISH AND GAME ASSOC. PRESENTS WATERFOWL NIGHT

The Nassau County Fish and Game Association in cooperation with the North and South Shore Waterfowlers Associations, will present an informative lecture on Wednesday, December 14 at 8:15 p.m. in the Hempstead American Legion Hall, 160 Marvin Ave., Hempstead. The event is free and open to the public.

According to NCFGA President Charles Bevilacqua, attending the meeting will be a state conservation officer who will give a talk on steel shot, and Steve Sanford, a state waterfowl biologist, who will lend us his knowledge about Long Island's migratory bird population. To top offt he night, Dave Relyea, our association vice president, will give a colorful slide show on award winning duck boats."

For more information on how you can become a member of Nassau County's largest sportsmen's organizations, come to the December meeting, or send a post card with your name address and telephone number on it to: Nassau County Fish and Game Association, P.O. Box 245, Rockville Centre, N.Y. 11571.

MAGNUM BASSMASTERS

The Magnum Bassmasters of Long Island has opening for new members. The club is a small fresh water bass club headquartered in mid-Nassau. We are a NYS Federation Club. Some of the many activities include club tournaments on Long Island and upstate lakes, plus NYS Federation tournaments. The club also offers lots of friendly help and information for beginners and experts. Come join us.

How A Little Black Box Finds Fish. Time After Time.

The Affordable New DC-2000 Fishing Loran From **Interphase** Guides You Precisely To Your Favorite Yet Hard-To-Find Hotspots. Everytime.

Now any fresh or salt water boating angler can have Loran—the next major step in fish finding technology. The easy-to-use, full-function DC-2000 Fishing Loran from **Interphase** is priced to fit within anyone's budget.

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So Simple, You'll Learn In Minutes. We've kept the DC-2000 Fishing Loran uncomplicated, so you'll learn in minutes . . . and locate those hard-to-find fishing spots faster than ever!

Loran Will Soon Work Everywhere. Loran will soon expand to cover the entire U.S. So, the DC-2000 Fishing Loran will find fish practically anywhere there's water. From Midwest impoundments to offshore ocean waters. From the Great Lakes to the Gulf of Mexico.

Put the advantages of the DC-2000 aboard your fishing machine. See your **Authorized Interphase Dealer** today. He'll show you the little black box that finds fish. Time after time.

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1 2 3
TD2 GRI TIME TO GO
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7 8 9
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INTERPHASE DC-1000 FISHING SONAR

At the touch of a button, the DC-2000 gives you the precise compass heading and mileage to any hotspot.

Link up the DC-2000 Fishing Loran with the new DC-1000 Fishing Sonar, today's most advanced dual-frequency LCD fish finder. Together they form the advanced new *Fishing Data Center*.™ Only from **Interphase**.

Free! Send in this coupon for your free full-color booklet on how the DC-2000 can help you find more fish.

Loaded With Features That Really Help You Catch Fish.

The DC-2000 Fishing Loran is packed with advanced, easy-to-use features.

Remembers 99 Of Your Favorite Fishing Spots. You may forget where you caught fish, but the DC-2000 won't. Just punch in the spot, and the DC-2000 remembers for you.

Displays Course And Distance. Tells you how far and the precise compass heading to any "waypoint," guiding you directly to any of your hotspots.

Shows Your Position In Lat/Lon Or TDs. You choose the format that makes you feel most comfortable.

Super-Simple To Use. You'll learn to use every function in just minutes. Loran-C has never been this simple.

Interface Output Feature. Lets you combine the DC-2000 with the DC-1000 Fishing Sonar to create the *Fishing Data Center*. Also links up with other track plot displays or an autopilot.

Displays "Cross-Track Error!" Tells you how far you're off course and whether to turn left or right to get back on course.

Snap-Action Silicon Rubber Keypad. Completely waterproof and easier to use than other types of keypads.

24-Hour Clock & Two Count-Up Timers. You always know the time, plus how much longer you can fish.

One-Button "Take Me Home" Feature. Quickly tells you how to get back to port, even when it's dark or there's heavy fog.

Shows Your Ground Speed & True Course. Plus "Time To Go;" "Course Made Good;" course planning, arrival and anchor alarms, and much more.

Backlit LCD Display. For excellent viewing under low-light or night-time fishing conditions.

Super Compact Design. Just 7" wide × 3.75" high × 2.25" deep. Will fit practically anywhere. Includes mounting hardware, electrical harness and antenna coupler.

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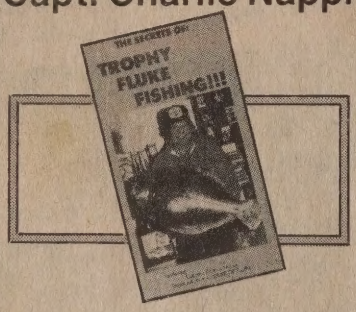

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New Products

NEW SI-TEX CVS-103 COLOR VIDEO

The new CVS-103 Color Video Depth Sounder from Si-Tex offers a high-resolution display in eight vivid colors on a six inch screen plus an exclusive Instant-Zoom feature that give you an expanded view the second you want it.

When you want to do it fast. That's where the 103's image tracking memory and Instant-Zoom come in. At the touch of the zoom key, the entire screen instantly fills with the display of the selected zoom range. There's no waiting for the expanded image to advance across the screen. The entire picture is there in a flash. Zoom ranges are selectable for any 3/4, 1/2 or 1/4 segment of any range you're on.

With five basic ranges from 0-40 down to 640 feet, scales are selectable in feet, fathoms or meters. Basic ranges are controlled with touch keys or automatically by Auto Range control.

In addition to depth range selection and Instant-Zoom, six large touch keys give you simple finger-tip control of image advance speed, picture freeze plus upper and lower alarm settings.

Actual bottom depth and alarm settings are digitally displayed. Boat speed and surface water temperature are optionally available.

For more information on the CVS-103, write Si-Tex Marine Electronics, P.O. Box 6700, Clearwater, FL 34618. Telephone: (813) 535-4681.

BOTTOM LINE ADDS NEW TOURNAMENT 310DXT DEEP WATER VERSION

Designd especially for the deep water angler, Bottom Line introduces the new Tournament 310DXT with a high-contrast super-twist screen for easy viewing at any time of the day.

The unit features a 44-degree cone angle and 50 KHz operating frequency which provides accurate readins up to 900 feet.

Other key features include an electroluminescent back light, GreyScale for separating the actual bottom from other objects, an improved Fish D'Tect, split-screen zoon, split-screen bottom track and a croshair cursor with crosshair cursor zoom for an up-close look at targets. In addition, the unit features surface clutter control, battery voltage meter, surface temperature, boat speed, and on-screen speed calibration.

The Tournament 310DXT also had depth and temperature logs, distance traveled log and hazard, zone and fish alarms comprising its long list of features.

It also has a built-in simulator and is backed by Bottom Line's lifetime warranty and software upgrade program.

For more information, write Bottom Line, Electronics Division, 5381 Kendall St., Boise, ID 83706.

THE NEW EAGLE™ FISH I.D. OFFERS HIGH TECH AT LESS THAN $160

Thanks to superior design and manufacturing technology, Eagle Electronics brings you the fish finder you've been waiting for, at a price you've been dreaming of!

The new FISH I.D. liquid crystal graph (LCG) offers Eagle quality, reliability and fish-finding performance for less than $160! Incredibly, it even has features not found on some competitive models costing much more!

This stylish, compact sonar unit is easy to use. It offers a "supertwist" display for great screen visibility plus a wide beam (20 degree) transducer to show you more of the underwater world... and therefore more fish. The unit's fish I.D. feature even displays fish as clearly defined fish symbols in three sizes!

The FISH I.D. allows you to adjust sensitivity in either automatic or manual mode and features fish and chart alarms, Fastrak for operation at high boat speeds, backlighted display for nigh use, depth ranges up to 180 feet, and more.

The Fish I.D. PLUS model offers all the advantages of the FISH I.D. and also indicates boat speed and water surface temperature. At less than $225 retail, it's a real bargain too!

For more information on the FISH I.D., FISH I.D. PLUS and other Eagle products contact Eagle Electronic, P.O. Box 669, Catoosa, OK 74015.

PORTABLE MICROLOGIC ML-8000 LORAN

Just like the standard ML-8000 Loran, MICROLOGIC's waterproof and portable ML-800 with telescopic antenna lets you navigate to any of its 250 waypoints using the advisory and prompting messages provided. You can give the waypoints names and 100 of them can be hidden using your own secret code.

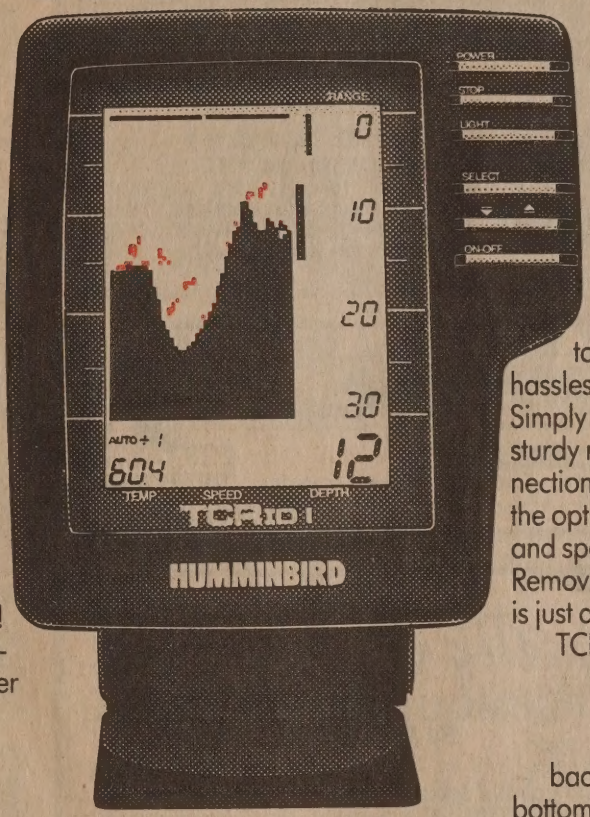
The Portable ML-800 provides eight hours of operation and comes with its own charger. Or you can keep the Portable ML-8000 on continuous charge by simply wiring a power input plug into your boat's 12 volt system.

All waypoint entries can be made using Lat/Lon, TDs, Range/Bearing or Present Position. The Portable ML-8000 provides automatic chain and secondary station selection, magnetic variation, ASF (Landmass) correction, waypoint sequencing and waypoint routing. There are nine routes available with 20 waypoints in each route. And you have manual override functions for maximum coverage in fringe areas.

The navigational outputs include parallel routing for search patterns, specified approach heading, simultaneous long and short run speed and course averaging, range and bearing to a waypoint or between waypoints, velocity made good

TCR ID•1™

IF IT'S FISH, IT'S RED...
IT'S ABSOLUTELY THE BEST!

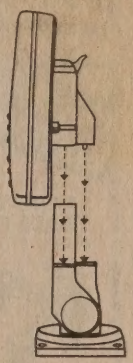


America's most popular way to identify fish — in red — is built into the new TCR ID•1. Humminbird pioneered fish I.D., and still no one else has the ability to display fish in red. Even fish close to the bottom show up in bright red, while the bottom and anything attached to it are black. It's positively amazing!

You'll also see stronger signals, such as those from larger fish, displayed as a black dot behind a red dot — so you can quickly spot those big ones. To make fish-finding even easier, set the two-level fish alarm and adjust the volume to the level you prefer.

The TCR ID•1 is totally different from any other depth sounder you've ever seen. Its new streamlined design creates a unit that's practically all screen, and offers complete command of all the functions with just seven buttons.

The TCR All-In-One Mounting And Connector System means no more hassles with cables and knobs. Simply snap the unit onto this sturdy mount, and get full connection to power, Sensor and the optional temp and speed gauges. Removing the TCR is just as easy.



TCR technology also brings brings you a two-level backlight, zoom, bottom-lock, bottom alarm, waterproof construction and depth ranges to 120 feet. And with the TCR's new Select System, it's incredibly simple to learn and use these great features. The TCR ID•1 Portable offers all this, plus go-anywhere convenience.

If it's fish, it's red . . . it's absolutely the best! Humminbird's amazing, new TCR ID•1.

WHAT IS A HIGH-DEFINITION DEPTH SOUNDER?

The TCR ID•1 features our exclusive 455 KHz high-definition performance system — twice the frequency, three times the power (1600 watts, peak to peak) and twice the detail of other units.

455 KHz
200 KHz
3 fish clearly displayed
3 fish close to the bottom clearly shown
One fish?
No fish close to the bottom are shown

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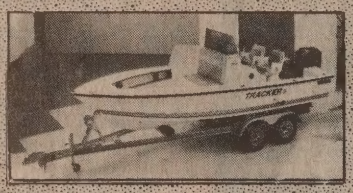
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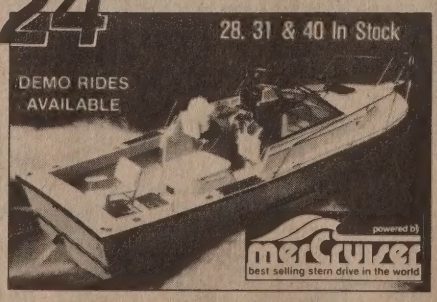

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(VMG), cross track error (CTE), course error, time-to-go, estimated time of arrival and adjustable graphic course deviation (CDI) scaling.

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NMEA 0180 is standard on the Portable ML-8000 for autopilot and CDX outputs.

The complete Portable ML-8000 with the ML-43 Battery Pack and Telescopic Antenna has a list price of $1607. Or, if you already have a ML-8000 Loran, the ML-43 Battery Pack with Telescopic Antenna is available separately and can be attached to your standard ML-8000 in less than two minutes without tools. Or mount it in the standard mounting yoke to provide emergency power. Or take your Portable ML-8000 with you for use on a friend's boat. The ML-43 Battery Pack and Telescopic Antenna sold separately has a list price of $395.

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VOYAGER US 1 LORAN NAVIGATOR

The US 1 from VOYAGER is a quality American made Loran navigator that combines a complete array of outputs and functions with simple, self-explained operation.

The displays of the US 1 tell you what they are, and what to do next, using the 100 waypoints provided.

Chain and secondary station selection, magnetic variation, and ASF (Landmass) correction are all automatic, as are all receiver functions. You can navigate using Lat/Lon, TDs or Present Position.

The US 1 is sealed for water resistance and can be mounted anywhere. List price is $895. For more information contact: Voyager, 20801 Dearborn Streeet, Chatsworth, CA 91311, (818) 998-1216.

KODEN INTRODUCES NEW LINE OR RECREATIONAL RADAR SYSTEMS

Recreational boaters will find a new line of advanced radar systems available for the 1989 boating season. They will bear the highly respected Koden name.

Certain to be a favorite will be Koden's new MD-3000, a 3kW unit with a range of up to 32 nautical miles. An outstanding feature of this model is its 9" CRT display. It provides a level of picture brightness that makes daylight viewing exceptionally sharp and precise. For nighttime use, the brightness can be manually dimmed.

Also enhancing the 3000's digital viewing accuracy is a multi-level quantization feature that allows distinguishing strong targets from weak. Tone intensity is dependent upon echo strength. Strong targets appear bright, weak targets dim. This provides significantly improved target visibility in clutter. A microwave integrated circuit also helps improve long and short range target visibility.

The MD-3000's randome measures only 1.8', which makes it ideal for use on smaller boats. It is equipped with a heavy

duty gear assembly and a highly reliable ransceiver. Its streamlined shape is designed to withstand usually harsh windloads.

Within its compact size, the MD-3000 packs all the standard features of larger, more expensive systems, such as EBL, vrm, proximity alarm, interference rejection, target enhancement, trail presentation and 50% downward off-centering. In addition to ordinary relative mode head-up pictures, the MD-3000 also provides north-up and course-up pictures, when a gyro compass is connected using an optional gyro adapter.

Standard equipment includes the display unit, randome, hood, connecting cable, power cable and connector, spare parts kit and installation materials.

From Koden International, Inc., 77 Accord Park Drive, Norwell, MA 02061.

FURUNO EXPANDS FCV-550 SERIES COLOR SOUNDER LINE

The FCV-551 500W (rms), single-frequency, 8-color video sounder with high resolution 8" CRT has now been added to the sounder family that includes the dual-frequency FCV-552 introduced last year.

Both units can provide, with optional sensors, a historical temperature plot covering the range from 23 to 86 deg F on the lower third of the CRT. Or, they can interface with onboard loran or sat nav receivers to function as video plotters complete with present position, track plot, event marks, present and past waypoints, range/bearing to waypoint, and current time, as well as position depth, temperature and time data for past waypoints.

In the sounder mode, the FCV-551 provides 19 basic ranges to 3000 feet, from which the user can preselect andy 6 frequently used scales. Additionally, the unit can be phased in- or 10-foot steps across the entire range and there are 6 selectable bottom lock ranges.

Operators may choose from 6 different display modes that include any combination of high, low, or mixed frequencies and bottom lock.

The FCV-551 is available in either 50 or 200 kHz operating frequencies. It has internal memory to store a full page of data in any mode, alarms for fish, bottom, midlayer, or temperature, it stores up to 16 events, and operates from a universal 11-40 VDC power supply drawing just 50 W.

Furuno's new FCV-551, and the entire FCV-550 Series, has the performance features for complete Fishing Database Management. Send for free full color literature today to: Furuno U.S.A., Inc./P.O. Box 2343, 271 Harbor Way, So. San Francisco, CA 94080, (415) 873-9393.

HUMMINBIRD'S CVR 1000

Humminbird presents the world's only totally automatic, totally waterproof color video unit—the CVR 1000. All fishermen have to do is turn it on, and it automatically finds the bottom and provides perfect sesitivity and color adjustment. No manual adjustments are necessary.

It's so waterproof, it can actually be submerged. And it's so compact, it can be mounted practically anywhere, on practically any boat. Nobody else builds a color video machine that even comes close to

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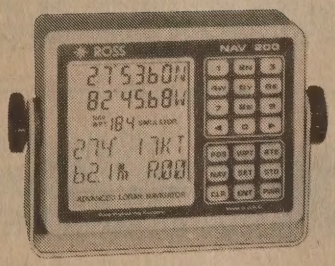

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Humminbird's CVR 1000 in terms of features, simplicity or durability.

Eight vivid colors represent signal strength from specific types of objects, so it's easy to identify smaller fish, larger fish and various structure. To make readings even simpler, the bottom appears in a different color from everything else—anglers can easily distinguish fish as close as three inches off the bottom. The viewer can also call up the CVR 1000's color bar for quick reference to signal strengths.

The six-inch-diagonal screen provides plenty of viewing area, and its tinted lends improves visibility in bright sunlight. A sun shield is included to keep direct sunlight off the screen. And the lighted keyboard makes night operation even easier.

Truly made for big water, the CVR 1000's depth scales range downto 1,050 feet. And the seven-button Select System is amazingly simple to operate.

The CVR 1000. Brilliant color, simplicity and reliability all in one compact unit. For more information contact: Techsonic Industries, Inc., #3 Humminbird Lane, Eufaula, AL 36027, (205) 687-6613.

LOWRANCE ENTERS WIDE SCREEN MARKET WITH LMS-200

Some things in life are worth waiting for.

Take, for example, the Lowrance Marine System (LMS") 200. With this new unit, America's premier manufacturer of sportfishing sonar brings new standards of performance, quality and reliability to the realm of wide screen liquid crystal graphs (LCG"s).

the LMS-200 boasts a "supertwist" CLEARVISION™ display measuring 4.3 inches wide by 3.5 inches tall. With 128 vertical pixels, it provides the level of display detail demanded by serious fishermen. It also insures excellent visibility under all light conditions, even with extended exposure to direct sunlight. As you might expect, it is backed by the finest electronics in the industry.

A wide screen brings big water to many anglers' minds, and this LCG is read for it. With 3000 watts of power, the LMS-200 can transmit at 192 kHz to depths of more than 1000 feet.

Options include a full-featured Loran-C module that even permits "X" and "Y" plotting on the LCG screen; a triple-wide BROADBEAM™ transducer for 60 degrees of underwater coverage and directional scanning; and sensors which provide digital readouts of boat speed, miles traveled and surface temperature.

The LMS-200 also includes all of the standard features that you've come to expect from Lowrance, like constant digital bottom reading, automatic discrimmination, Grayline®, multiple alarms, waterproof case filled with dry nitorgen to prevent fogging, backlighted display AND keyboard for night use, and Fastrak for operation at high boat speeds.

Even with its impressive list of features and options, the LMS-200 is simple to use, thanks to the unit's advanced microprocessor and "soft key" controls. In fact, it's as easy to operate as an automated bank teller machine. The user does little more than answer on-screen questions to tune the unit to his needs.

One look at the LMS-200 and you'll know the waiting is over. For more information contact Lowrance Electronics, Inc., 12000 E. Skelly Drive, Tulsa OK 74128.

APELCO'S ULTRA COMPACT, FULL-FUNCTION LORAN IDEAL FOR OEN BOATS

At 5½ inches high by 4¾ inches wide, including adjustable mounting yoke, Apelco's DXL 6300 Loran-C Navigator is about half the size of most other Lorans. This full-function, 100-waypoint Loran fits easily onto center console and other small boats. Big boat owners will also want this Loran, since it takes up almost no space at all on crowded bridges.

"The DXL 6300 is an ideal interface for LCD fishfinders," notes Apelco's John Vourloumis, Marketing Manager. "While some LCD fishfinders have Loran built in, Apelco chose to keep Loran separate. By offering the DXL 6300 at such a low cost, boatowners can buy this Loran and a top-of-the-line Apelco LCD fishfinder for about the price of a single LCD/Fishfinder," he adds.

Using keypad controls, the DXL 6300 offers user-friendly screen prompts which give easy-to-follow instructions for operation. Large, daylight-viewable LCD readouts show TD's, Lat/Long, course, speed, time-to-go, distance, and bearing to waypoints in two lines on a 1¾ by 2½-inch screen. The DXL 6300 is programmed for all worldwide Loran-C chains. To provide the highest degree of

SI-TEX® MS-88 AM-FM/CASSETTE MARINE STEREO

Experience the magnificence of the MS-88 Marine Stereo Sound System.

The MS-88 gives you high-quality stereo performance in a compact system expressly built to withstand the tough marine environment. Its many features include: audio output power of 20 watts per channel, PLL quartz synthesized AM-FM tuner with programmable memory for storing 12 of your favorite stations, automatic station seek and scan, auto-reverse cassette system with DOLBY® noise reduction, locking fast-forward/rewind and music program search. Plus a two-band marine weather receiver. Speakers are optionally available.

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accuracy possible, it automatically selects best GRI chain and secondary Loran stations.

Navigation is simplified with automatic or manual magnetic variation, as well as ASF. Other features include audible "arrival" alarm signals; and NMEA 0180/0183 outputs for interface with radar, fishfinders, plotters, satnav, GPS, autopilots, and other marine electronics.

Manufacturer's suggested list price for Apelco's DXL 6300 Loran-C is $739. Apelco offers a 10-year product protection program which includes a flat-rate service policy in addition to its standard warranties. Apelco is Raytheon Company.

For more information on this and Apelco's full 1989 line, contact: Apelco Marine Electronics, 1107 N. Ward Street, Tampa, FL 33607; (813) 877-9418.

IMPULSE 2800 FISH FINDER

Many fishermen mistakenly believe that all liquid crystal displays (LCD) used in marine electronics have the same problem: They can't read them unless a bright sun is overhead.

Enter Impulse's Super Twist technology. Super Twist lets you catch the action from just about any angle and under most light conditions. The screen shows the fish and the structure with video- like clarity—in flat or bright light. What's more, the EL (electro-luminescent) screen keeps the 2800 Plus pinpointing where the fish are early in the morning or after the sun goes down.

The Fish ID feature of the 2800 Plus makes it the first LCD programmed to show fish in proportion to their actual size. The screen will display six different sizes of actual fish shapes, depending on the strength of the signal bouncing off them, to verify what you're seeing. No more confusing lines or little dots. Because why else would you buy a fish finder—except to look at fish?!

When you're fishing a breakline or locating a wreck, you need to see more than most LCD's can show you. where most of the LCD's are still long and narrow, the Impulse 2800 Plus features a screen that's almost as large as the old-fashioned paper graphs. You can see what's been going on under the boat for a longer period of time. You'll know how far away that fish-holding structure is. And, with the 20,480 pixels in the screen, you can see that structure with higher resolution than ever heard of with other LCDs.

As high tech as the Impulse 2800 Plus is, you don't need a degree in computer programing to use it. Our engineers made it so user-friendly that for most functions, all you do is push one keypad, two at the most. You'll quickly appreciate features like the One- Touch Zoom when you compare it to the six or eight keystrokes required with other brands.

While the 2800 Plus finds fish, you can also monitor boat speed, water temperature, digital depth and distance traveled. You see important information in a digital display at the bottom of the screen while the 2800 Plus is in fishfinder mode!

The 2800 Plus comes with 120 KHz operating frequency, which gives you a 45-degree beam angle. Because 120 KHz is a medium range frequency, you get optimal performance whether you're in shallow water feet or 480 feet of water! And big water anglers can track fish as deep as 960 feet when they use our optional 20-degree beam angle transducer.

NITE BITE LITE

It weighs just 2.2 grams, sits snugly at the tip of a fishing rod, won't affect casting or the tip action, and lets night fishermen know when they're getting a nibble after sunset.

The new product is the "Nite Bite Lite" and it's finding a ready place in every fisherman's tackle box. The "Nite Bite Lite" is securely attached at the tip of the rod with a durable medical neophrene band. The bright red glow of the battery-powered unit faces back toward the fisherman. A unique battery case in the base of the unit also serves as the on-off switch. The battery case contains a stainless steel, permanently sealed #393 hearing aid battery.

Unlike bells and other night signals, there are no false alarms with the "Nite Bite Lite." The fisherman can see every tug on the line and reacts only to the definite nibble of a fish.

Depending upon replacement battery make and model, the #393 battery will last up to 100 hours.

The "Nite Bite Lite" is available at leading retailers nationally. For complete information contact Ten Enterprises, PO Box 1886, Lodi, CA 95251.

SI-TEX® CVS-103 CHROMASCOPE COLOR VIDEO SOUNDER

You get the big close-up picture in a flash with *Instant-Zoom.*

When you want to zoom into a specific area you want to do it fast. And that's exactly what you can do with the CVS-103 Color Video Sounder. Touch the zoom key and the entire six-inch screen instantly fills with an eight-color display of the selected zoom range. There's no waiting for the expanded image to advance across the screen. Five basic depth ranges are selectable from 0–40 down to 640 ft. Plus there's Auto Range, freeze frame and upper/lower alarm settings. All controlled with touch-key simplicity. Boat speed and water temperature are optionally available.

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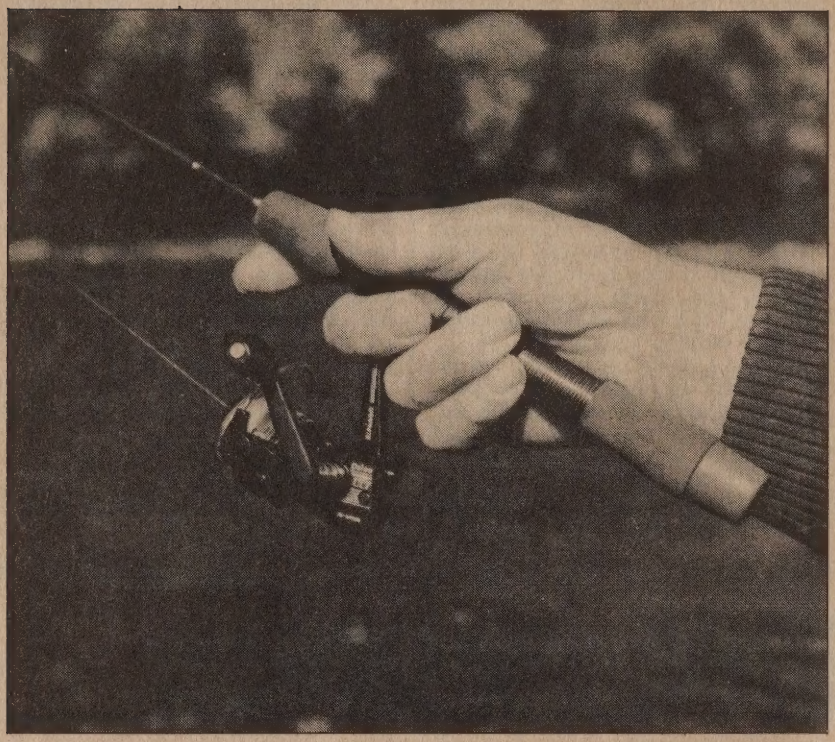
Product Review

by J.B. Kasper



DAIWA UL 7 SPINNING REEL

Conquering nature's aquatic predators in the most sporting manner possible is what angling is all about. No where in the realm of sport fishing is the fact more prevalent than in ultra light fishing. Now that reels are being made of super light materials such as graphite, the whole world of fishing has taken on a new look. Sleek new lightweight, fast retrieve, smart looking reels offer the prospective ultra-light fisherman the ability to do battle with bass, trout and other sought after game fish with tackle weighing a mere six ounces or less.

Almost all tackle manufacturers produce an ultralight reel of their own, some however, simply don't pass the test ot time. Because of their size, some ultralight reels have had problems with endurance among avid fishermen because of the amount of time they are used. In the past few years I have sampled the ultralight reel market and have found several that can withstand the test of constant use and time. The Daiwa UL 7 is one of these reels.

Before I go into the specific features of this rough and tough no nonsense reel, I would like to point out some of the conditions under which I used it for the past year. Operating a guide service often forces me to loan out equipment to people who are not familiar with it, and both novice and veteran alike have put the reel to the test. Another hard test that is applied to the reels I use is that of being submerged in water on a day in, day out basis. The reason for this is the amount of wading we do during the warm water season in which we carry two rods, one of which is placed in a sheath on a belt. If the person wades past the belt, then the reel fills up with water. I have also used them for such powerful fish as stripers and shad, which tests both their gearing and drags. In all fairness, I must add that the reels are maintained on a regular basis (cleaned, greased and oiled) because of the rough treatment they must endure.

The heart of any ultralight reel is it's weight and size. This is what allows the angler to balance it with the feather weight rods that he chooses for different styles of ultralight fishing. Many ultralight reels that are on the market today are light in weight but bulky in size, and vice versa. The UL 7 is both compact and light in weight, checking in at about 6 ounces. This makes it appealing for the angler who prefers the 5½ foot and under sized rods that are common among smallmouth, trout and panfishermen. The gear housing and rotating head ar made of molded graphite.

One of the most important parts of any ultralight reel is it's drag system. Handling tenacious fish on light tackle and lines puts a lot of stress and dependancy on a reel's drag system. The spool mounted drag of the UL 7 employs up-to-date materials in it's construction and offers the fisherman a wider drag adjustment range which he can fine tune for even the lightest of lines. The drag knob is recessed into the spool to help prevent line from winding around it and also to prevent line from getting behind the knob, which is a common occurance in ultralight equipment.

The spool itself is skirted and made of strong, light weight anodized aluminum and is wider in diameter than most ultralight reels. This is a big plus because it helps cut down on line twist and also picks up more line for each turn of the handle than a smaller diameter spool does. It is also preferable when fishing lures and baits that put very little tension on the line, giving you a "loose line pick up." The wider spool keeps the line in place better. It also helps keep line from getting under the spool. The line capacity of the spool is 200 yards of 2 pound test, 125 yards of 4 pound test and 100 yards of 6 pound test. The spool also has a convenient built in line holder.

Another essential part of an ultralight reel is it's gearing. Since these reels are small and light, tremendous pressure is put on their gear systems and here is where many fail. The UL 7 uses a drive and pinion gear drive train. The pinion gear rides on a set of stainless steel ball bearings for smooth operation and long life, with a gear ratio of 4.3 to 1. The anti-reverse is silent and conventiently mounted on top of the gear housing in the rear. This allows the angler to apply it, or take it off, with the touch of a finger, even when fighting a fish. Many anglers prefer to use "back reel" techniques with ultra-light equipment and the location of the anti-reverse is well suited for this.

The bail system employs a stainless steel roller bearing on which the line rides and can be tripped either manually or automatically.

The reel handle is reversable for both right and left handed operation. It can also be folded back for storage when the reel is not in use or is being stored.

Being an avid ultralight fisherman, there have been very few ultra-light reels to come along in recent years that have really impressed me. The UL 7, however, has impressed both myself and also many of the anglers with whom I have had the pleasure to fish with this season. It is a smooth operating and durable reel that is well worth the price and should give the average fisherman many years of maintenance free service.

For more information, contact: Daiwa Corporation, 7421 Chapman Ave., Garden Grove, CA 92641, (714) 895-6645.

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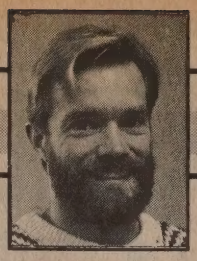
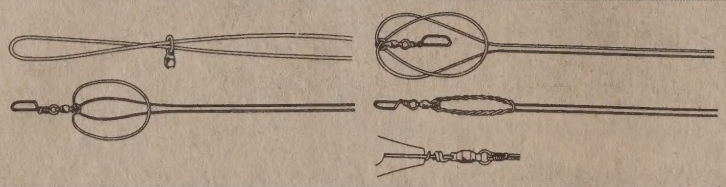


by Ken Freel

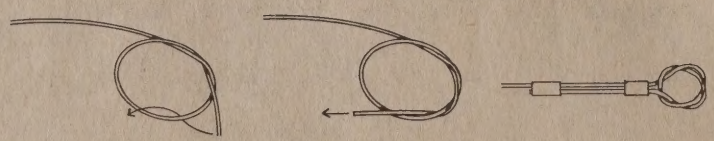
Offshore Swivel Knot

This strong knot is used to attach a swivel or snap swivel at the end of a double line. Be sure both legs of the double line are exactly the same length or one leg will have a bow in it. This knot will never come apart even if one leg of the double line should break.



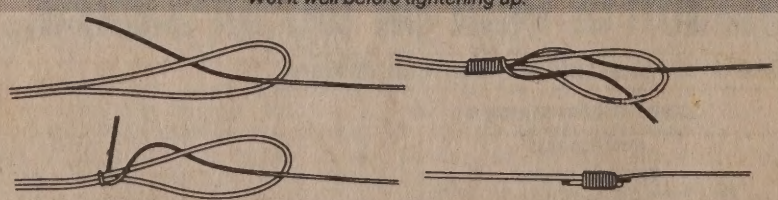
Offshore Loop Knot

This knot is used to put a loop in the end of cable leader or to attach a hook to cable. It must be formeed with crimps, and double crimps, and double crimps are preferred fro greatest strength.



The Albright Knot

Wet it well before tightening up.



The November 3, Tackle Doctor column ran a diagram of the Albright knot. Although the diagram was basically sound, we received a note from a reader who has met Mr. Albright and explained the procedure to tie this knot more precisely. Let's take a look at the letter from Nancy Weinstock. A new diagram of the Albright knot follows. Thank you, Nancy!

Dear Doc,

I changed your sketch of the Albright knot which was shown in issue 44 to show the tag end coming out of the loop opposite the side that it entered. Albright taught me this hitch himself and always stressed this point. You end up with the strands pointing away from each other, not in the same direction. Best regards,

Nancy Weinstock

Dear Doc,

Excuse me if I sound dense, but as a novice sharker I was wondering if the Albright knot which you demonstrated in a previous issue was for me.

The typical sharks that we tag and release are dusky, brown, blue and an occassional tiger and mako in the 80 to 120 lb. range. However, we do want to be prepared for any monster sharks that may come along too. We fish 50 lb. test offset with 275 lb. wire leaders and 10/0 Mustad hooks. We fish both day and nights.

Would you recommend incorporating the Albright knot into our rigs? We look forward to your answer. Sincerely,

Michael Spaziano.

Dear Michael,

An old college professor once told his class of prospective journalists that the only dumb (or dense) question is the one you don't ask. Therefore, your question is a good and valid one.

Although the Albright is an excellent knot to use for attaching lines of different diameters or wire to monofilament, it is essentially a light tackle knot. Hence, once you exceed tackle requiring line or wire heavier than 30 pound test or so, you should not use the Albright knot as a connector. Obviously then, you should not incorporate the use of this knot into your shark fishing rigging technique.

Your terminal end rigging system should include a bimini twist to double up the line. The length of the leader will determine the length of the doubled line you can use. For instance, with 30-pound test or more, the International Gamefish Association (IGFA) regulations allow 30 feet of leader and 30 feet of double line. However, the combination of the two cannot exceed 40 feet in total length. Therefore, a 20 foot leader would allow for a 20 foot length of double line. A 10 foot leader would allow for a 30 foot length of double line and so on, as long as the total length is not more than the 40 foot maximum allowed by the IGFA.

At the end of the bimini twist you want to attach a snap swivel by the use of an offshore swivel knot. To make this knot you pass the end of doubled line through the swivel eye. Be sure that both legs of the doubled line are exactly the same length or one of the legs will have a bow in it. Next, bring the loop formed back over the doubled line so that a circle is formed by this loop. Then you hold the loop against the circle 6 to 8 times. The final step is to pull the swivel and the double line in opposite directions to tighten the offshore swivel knot. This knot will never come apart even if one of the strands of doubled line should break. An important advantage with this type of fishing. Please look at the illustration included above for easier understanding of how this knot is tied.

Now you are set to attach the wire leader to the snap swivel. Here you will use the offshore loop knot. This knot is easy to tie yet very effective in reducing the chances of losing a fish due to leader failure. All you need to do is to make a circular loop at the end of the wire by passing it around itself three times, then bring the tag end back against the original strand. The parallel strands of wire are then crimped together. Double crimps are recommended for best results. Again, refer to the illustration included herewith for an easier understanding. The 10/0 Mustad hook that you use would then be, of course, attached to the snap swivel. Thanks for an interesting question.

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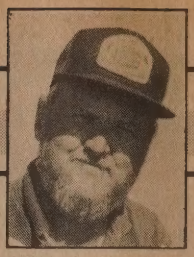

By Eric Burnley

Dear Eric,

I read your article in the October 20 - 26th issue about how to winterize an inboard/outboard motor. I have already waxed my 14 foot fiberglass boat, put the trailer on blocks and removed the tires. I would like to know how to winterize my 45 horsepower Chrysler outboard motor.

The Motor will be stored outside for the winter and I don't want any winter damage to my boat or motor. The motor has only been used in fresh water and the gas has been run out of the motor so I won't have any problems with fuel gum up.

Terry Duffy

Dear Terry,

It sounds as if you have done a pretty thorough job of winterizing your boat and motor. One additional service you should perform is to drain the lower unit and replace the oil. I would also suggest removing the spark plugs and spraying each cylinder with oil. You can use special winter storage oil or a water displacing spray such as CRC or WD-40. This protects the engine from rust that can form as cold temperatures cause moisture to form on these metal parts.

Another protective measure would be a cover over both the boat and motor. Those blue plastic tarps sold at marine supply stores do an admirable job at a reasonable cost. You will have to construct some type of frame to hold the tarp over the boat in such a way that the rain and snow will run off. If an accumulation of snow does collect on the tarp, you must get it off as soon as possible before the extra weight can damage the frame.

One of the easiest ways to build a frame for your tarp is with PVC pipe. I use one or two inch pipe which can be cut to length with a hack saw. The pipe is easily joined with PVC pipe cement or if you want to take it apart in the spring, simply tape the joints together with duck tape. You will still use the PVC pipe union joints wrapping your tape around the joint and the pipe. This does not create as strong a union as the PVC pipe cement but it will hold in most situations.

With your boat well covered and your motor well oiled you should be ready when spring finally rolls around.

Dear Doc,

I have an Aqua-Meter Compass that needs some repair. The liquid level in the compass is low and it seems to be off-center. If you could send me the address to have it repaired, I would greatly appreciate it. Thanks and keep up the great column!

Bruce L. Cianciolo

Dear Bruce,

We had a similar request last year and my research into compass repair

revealed it was not cost effective for small units such as the one you own. Replacing the fluid and repairing the cause of the leak will cost you more than a new unit.

I suggest you shop around for another compass and toss your current unit into the junk pile.

Dear Eric,

Presently I own a 22 foot Grady White Seafarer with a single 175 horsepower engine. I would like to take this boat out and troll for tuna next year. Do you think this boat is safe enough to fish that far offshore.

Also, I have four Penn 3030 ARA rods with Penn 112H reels with 30 pound test, are these okay for tuna? Thanks for your advice.

John Hickey

Dear John,

The Grady White 22 Seafarer is adequate for inshore tuna fishing but would be outside of its capabilities if you tried to make it a canyon runner. Under ideal conditions and with plenty of fuel the boat would make the long run but I believe you both would be more comfortable inside the 30 Fathom line.

When I first began offshore a good friend of mine modified a 21 foot Grady White Chesapeake for canyon fishing. Two extra fuel tanks were installed where the forward seats should have been so we sat on 50 gallons of fuel on the way out. I have mentioned our use of this boat as a canyon runner to the folks at the Grady White plant and they just shake their heads and smile.

Your Penn rods and reels will hold most of the tuna you are likely to catch inside of the 30 Fathom Line. I use 113H Senators on custom built 20 pound class rods and a 30 to 50 pound tuna will push this tackle to its limit.

If you decide you like tuna fishing and plan to do it on a regular basis, I would suggest some heavier tackle. At least 114H reels filled with 30 or 40 lb. line and matched to Penn rods will bring your tuna in without tiring you out.

Dear Eric,

In a past issue I read about a group of fishermen and/or boaters who traveled to Florida in convoy with their trailerable boats and would make a trip to the islands off the coast, I believe they went to Bimini for a fishing trip.

Do you have any information on this group of people and if they are planning any trips in the future and also if they would be interested in inviting another interested party.

I have a 25 foot Wellcraft Sportsmen and I would like to make such a trip if I could make the proper contact.

Sgt. Gene Garron

Dear Sgt. Garron,

I don't have any information on this group but like you I have heard about their activities. We will print your request and anyone who would like to share information about this type of travel can contact me. I will pass the information to you.

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sportfishing federation update

The Five Year Plan

By Charlie Johnson

The Federation wishes to take this opportunity to thank The Fisherman, which can rightfully be called the media voice of the sportfishing public in the New York Marine District, for donating this editorial space every two weeks.

This agreement with The Fisherman is another in a long list of benefits to the recreational fisherman provided over the years. In addition to the editorial space, The Fisherman and the Federation are exploring the possibility of working together to provide efficient, low cost tournaments to the sportmen of Long Island. All money derived from these tournaments would be placed in a special dedicated fund and used to benefit the Long Island recreational fisherman. One project that has already been discussed is an artificial reef program.

Another feature to the agreement will be the return of 50% of all subscription fees generated by the Federation. So, if you are reading this and you are not a yearly subscriber to The Fisherman, call (516-589-2328) or write to the Federation and we will forward to you the necessary information. It's much cheaper then at the newsstand-$20.00 compared to $37.50. In addition, for every new subscription or renewal generated by the Federation, you will receive a fishing lure by Smoker Bait.

You will be hearing more about the tournaments in coming issues.

The Federation was organized in 1981 as a not for profit, volunteer organization. It consisted of the presidents of about 30 fishing clubs on Long Island.

As in most volunteer organizations, there was a crisis facing a segment of the sport fishing industry. There were 11 Japanese longliners set up at our offshore canyons and they were taking everything in sight. Through political action and networking with other groups like ourselves, the Japanese boats were pushed out to 1000 fathoms where fishing was not economically feasible. The first victory for the Federation.

From there we were instrumental in putting the first striped bass legislation in place in New York State. We successfully fought a salt water fishing license, and we got a weather radio relay installed in Riverhead.

It's important to point out that the Federation is not an offshore group or an inshore group or a surf group or a party boat group. We represent all these groups. Our stated goals are to promote sport fishing and to preserve our marine environment. Within our framework of over 60 clubs, we also have charter boat and party boat organizations, rod and gun clubs and yacht clubs.

Three years ago we set forth a five year plan. The major tenets of the plan were to achieve tax exempt status, which we did; put a first class newsletter out, which we have-the 3rd quarterly is almost ready for the printer; change the format and improve our sportfishing forum, which we did—the next one will be March 18 & 19, and to put a full time staff together. Putting a staff together is a big undertaking, and frankly, the request for membership that you find at the end of all these articles can make this a reality.

Another big interest we had about five years ago was to find out just what the financial impact of sportfishing is to the economy of Long Island. It took us a long time to find the person with the right credentials and then the funding. The person is an economics professor from SUNY Binghampton, Jim Kahn, and the funding was provided through Sea Grant and the DEC. The data has been collected (3 years worth) and the document will be released in the very near future. Two items of interest will be that sport fishing on Long Island is over a billion dollars annually and there are over a million recreational anglers on Long Island.

The Federation is the only organization that speaks for these anglers. We not only speak but we travel and we work. Our record suggests that we are deserving of your support.

Right this instant, there is an ocean dredge working on Fire Island Inlet, not only making it safer by deepening and widening it, but the sand is being pumped to the west to help stabilize those

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beaches. The Federation asked Congressman Tom Downey to help us make the Inlet safer and he did. We worked with Downey and the Army Corps of Engineers and other user groups such as the Captree Boatman's Asc. for three years to make this happen.

We represent you with a voting seat on the Mid-Atlantic Fishery Management Council, a seat on the Advisory Panel to the Regional Director of the National Marine Fisheries Service, a seat on the national panel that wrote a Service, three seats on the NYDEC Marine Resources Council, a seat on the advisory panel to the Atlantic States Marine Fisheries Commission Bluefish Plan, a seat on the Living Marine Resources Institute's Advisory Council, a function of SUNY Stony Brook.

On the national scene, we are charter members of the United Sports Fishermen. This is a group of sportfishing associations, environmental groups and outdoor writers from American Samoa to the American Virgin Islands that meet three times a year to discuss national and regional concerns. The body is financed through the American Fishing Tackle Manufacturers Asc. which employs several full time lobbyists in Washington. It has been this national group that is working behind the scenes, that has started to make an impact on fisheries legislation and the makeup of the various advisory councils that in the past have been dominated by commercial representatives.

Perhaps you have seen our booth recently at the Tobay and Belmont Boat Shows. We are involved in a mammoth effort to Cease Ocean Dumping. At the shows, besides soliciting memberships, we got thousands of people to write cards to their Congressman and to the EPA Administrator. These cards have made a difference. There is a bill sitting on the President's desk waiting for his signature that would stop all ocean dumping by 1992. When we started working congressional opposition to this legislation. It passed both houses with not one negative vote.

On September 10, after three months of intensive preparation, we put on a demonstration in New York Harbor which included hundreds of boats and a major news conference at Battery Park that was covered by all of the New York City Media. This was a gigantic effort put together by the Federation to coincide with the reconvening of Congress in early September. Another Victory!

Our work is just beginning . The mail is heavy everyday and the phones ring late into the night. And it's all about the sport we love. There are enough of you out there to help us upgrade our operation from a volunteer organization to a full time staff. We have the people. We have the contacts. We need you to become a supporting member of the only organization that represents the entire sportfishing industry here on Long Island. "The sleeping giant has awakened." Let's do more than awake here in New York.

Individually we are ineffective, but organized under one banner, we can promote sportfishing and we can improve our marine environment. Do it today.

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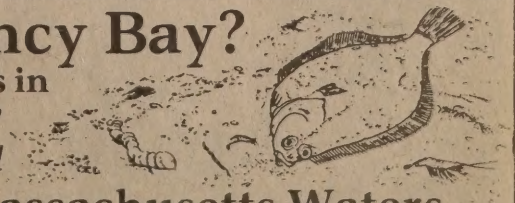

Fishing Massachusetts Waters
By Fisherman Editor Tim Coleman

With chapters devoted to Quincy and other areas in the Bay State, this tells you how and where to catch everything from cod to bass.

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IMTEC 1988

By Eric Burnley

The 30th International Marine Trades Exhibit and Convention was held from September 29 to October 2 at McCormick Place in Chicago. Gary Caputi, our national sales manager, and I attended this event to find out what direction the marine industry would take in the coming months. From what we observed the boat and accessory manufacturers are looking forward to continued growth and the competition will be keen. A competitive market is good for the consumer who will benefit from superior products at a realistic price.

One of the highlights of this year's show was the introduction of the Grady White 28 foot outboard boat. This boat is unlike any other on the market and has design features never offered before on a sport-fishing boat.

Grady White not only celebrated the introduction of this new boat but also the 30th anniversary of the company. Mr. Grady and Mr. White began to build boats in Greenville North Caroline in 1958 and the company is still going strong today under the leadership of Eddie Smith and Wiley Corbitt. This is a remarkable fete that very few boat companies have achieved.

Another major new product introduction was the Yamaha stern drive. I first heard of this collaboration between Yamaha and Crusader Marine at the New York Boat Show last January. At that time there were no motors for us to see but I was able to examine the line while we were at IMTEC.

There are three models of Yamaha stern drives, a 4.3 liter V-6, a 5.0 liter V-8 and a 5.7 liter V-8. They develop 180, 210 and 240 horse power at the prop respectfully.

The size and power of these units should fit most boating applications and the dual power option with counter rotating props will be ideal for larger, offshore boats.

Other innovations on these units include a trim and tilt that trims from -6 to +15 degrees. Included with this is a 56-degree maximum tilt to raise your lower unit clear of the water and make it easier to launch from a trailer. There is a manual override in case the battery fails and you have to raise the lower unit. An over the trim protection circuit alerts the operator when the trim exceeds 14 degrees and drops the engine speed to 2,500 rpm if you exceed 16 degrees. Finally there is an external trim switch on the top side of the transom that will allow you to raise or lower the unit without having to climb inside of the boat.

The motor sports a few new features including dual belts to drive the alternator and water pump. This reduces the strain for longer belt life and gives you a margin of safety should one belt break. The oil filter, fuel filter and water pump are located on the front of the engine for easy access and service. The ignition system is computer controlled and delivers peak performance under various load and fuel conditions.

The physical design of the lower unit provides minimum drag in the water which further improves the units performance. It makes a very clean wake as it cuts through the water. I am anxious to

run a boat equipped with the Yamaha outdrive and I hope I can give you a full report later this year.

Boats and motors are the mainstay of IMTEC but it is the electronics field where the biggest changes occur. The competition is so keen here that todays innovations quickly become outdated and unless a manufacturer keeps up with the latest technology he will soon be out of business.

There were two areas where manufacturers of marine electronics seems to be concentrating their efforts. The first is combining Loran and sonar in a single unit and the second is side scan sonar.

Impulse Electronics was the first company to put Loran C and sonar into the same unit. They introduced the 2830 model which combined the 2800 Plus Fish Finder and the 3000 Loran C.

This year Lowrance and Eagle will offer a unique option for their top of the line sonar units. You will be able to buy a Loran module that looks like a typical impedance matching transformer but contains the complete circuitry required to run a full feature Loran unit. The Loran antenna screws into the module and the lead in wire connects to the back of the sonar.

Both the Impulse and Lowrance/Eagle models incorporate a plot function in their Loran/sonar machines. In both cases the cost of buying one single unit is considerably less than the cost of a separate Loran and sonar.

I saw two sonar scanning devices at IMTEC this year. The one from Bottom Line uses a transducer with five transmitting elements and the product from Sonar-Scan uses a rotating wafer-shaped transducer suspended in an oil filled gimbal to give a 360 degree view below the boat.

Your can select the output of any one of the five transducers and display it full screen on the Bottom Line 360 Scanner or you can pick any three of the five and show them in equal thirds on the screen. Your choices are directly under, behind, in front and on either side of the boat. If you were looking for fish you could see them before you ran over them and you could also check the water to port and starboard as you cruise by.

The Sona-Scan is a powerful unit with seven ranges from 25 to 1000 feet and six sector ranges of 45, 90, 135, 180, 270 and 360 degrees. The display is shown on a CRT tube but the unit is still quite compact considering all of its features. The transducer can be mounted on the transom of small boats by using a special bracket that is retractable.

There were many other new electronic products displayed at IMTEC and we will be covering them in three special segments early next year. All the new motors, boats and accessories will also be covered during the boat show season and we will run product test reports throughout the year.

The recreational marine industry continues to move ahead with new models, new inventions and new ideas all of which benefit us, the consumer. It appears that we can expect continued growth and improvement in this area for many years to come.

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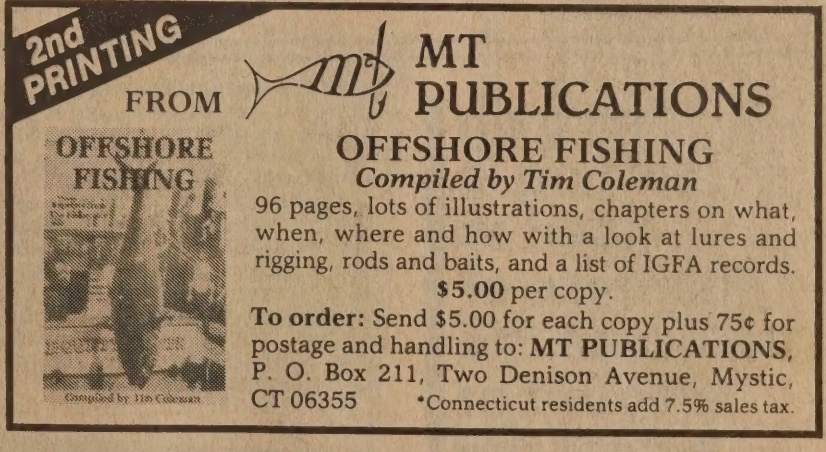
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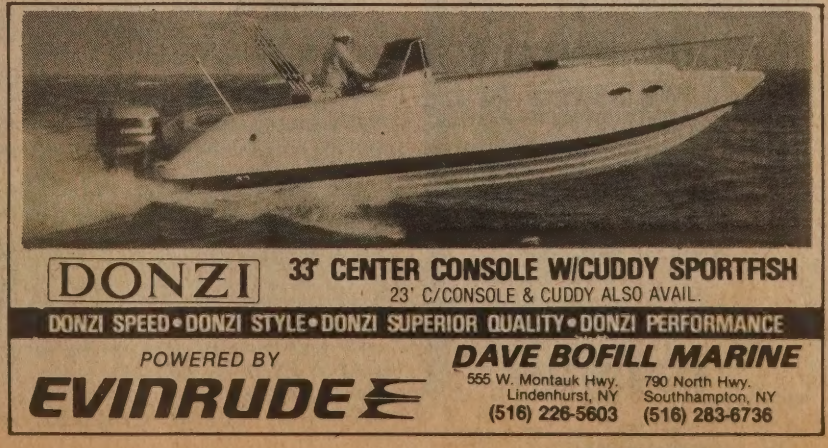
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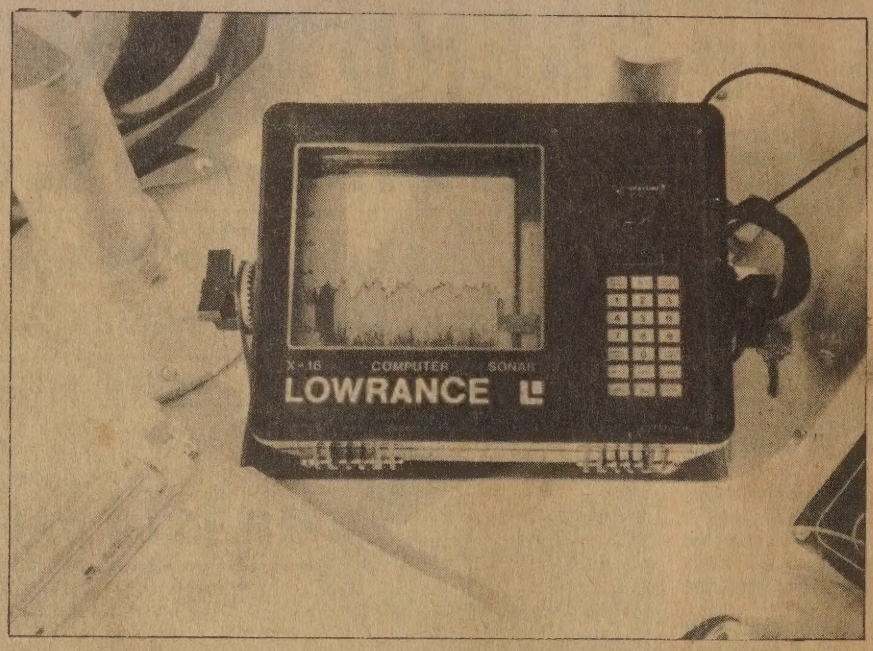
FINE TUNING YOUR RECORDER

By Greg Venturo



Fish finders are wonderful devices, but they must be fine tuned in the proper manner.

"The gain setting is used to increase or decrease the amount of signal the machine needs to read the bottom or fish in the proper manner."

I can't help but remember the frustration when I first tried to use my combination flasher/graph recorder. I'd turn the unit on and head out to do a little fishing and wondered why this blankety blank machine wouldn't read any fish! Looking back now I guess it would have helped if I read the instructions or the dealer would have showed me how to use it. Well 21 years later I'm still learning more about recorders, color sounders and L.C.D. type recorders but I think I have the basics down pretty well and hope I can pass some of these tips along.

The most common problem I have found with most anglers that ply the waters in search of fish is that they don't properly set the Gain (power) setting on the machines. The gain setting is used to increase or decrease the amount of signal the machine needs to read the bottom or fish in the proper manner. This technique is called peaking the transducer and is done in the following manner.

Let's say that we are fishing in 60 feet of water. Set your recorder to a setting that is at least double or triple the depth. In other words a 120 to 180 foot depth setting. At this point turn all of the surface clutter setting or noise discrimination levels to zero or off. This cannot be done at the dock and must be done on the fishing grounds. Raise the gain up to a point so that you can read the first bottom reading and then get a second reading at approximately double the depth. This second bottom reading is called second echo.

The second echo marking should not be a thin line but almost as well defined as the actual bottom reading itself. The reason for this is that the power level at which the machine is now transmitting is strong enough to send the signal down, back to the recorder and down again. You now have a properly tuned machine. This setting is now good for a area of 10 to 15 percent of the original bottom reading set for. Now return to your original depth settings. If you have peaked the machine for 60 feet and now move offshore to 100 feet you must set the recorder again to get more power for that depth, if you move inshore you must lower the power. This is the key to getting the information you want your machine to give you.

At this point your going to set the machine and say "Wow, what a great bottom reading but what a lot of interference." Guess what your going to be right! Remember that noise and interference rejection knobs are going to receive. Why bother setting the machine the right way only to eliminate the returned signal? This is where I get in trouble with the manufacturers but until they can come on my boat and prove me wrong I'll go ahead. GLUE noise suppression and interference levels settings to OFF or the ZERO settings. Learn to read through interference.

Interference comes from several sources and they are as follows:

NOISE FROM OTHER MACHINES: Recorders that operate at or near the same frequency as your machine that are nearby will show up as a uniform series of dashes on a recorder that are in a symmetrical line. Color sounders will show as the same however the dashes will be in color that shows the weakest returned signal.

LOSS OF PICTURE THAT RETURNS: When you pass over another boat's wake or your own the air bubbles that are in the wake will scatter the signals that the machine is sending out, giving you little or no readings at all. This situation will also occur if you come over a wreck and put the engines in reverse to stall your boat over the wreck. When the bubbles clear or you go beyond the wake your picture will return.

HEAVY INTERFERENCE-TOP 10 FEET: This is perhaps the most common complaint about most recorders. Saltwater depths that are less than 10 to 20 feet. If they are fishig for fluke or flounder the angler is more concerned with bottom contour than mid depth readings. The heavy top water life such as plankton and algae mixed with wave action that creates air bubbles normally makes up this poor upper layer readings. Once again, if you are searching for lower level fish, leave the clutter controls off and learn how to read through clutter.

Naturally there are many other things that can create noise in your sounders and many of them have to do with installation and electrical feed back from engine noise. Without getting into great detail, some of the common engine noise problems are: spark plug wires that are not noise suppressing or simply to old and need replacement, bad distributor caps or high capacity discharge distributors that require only an added condenser that will eliminate noise.

Many times boat dealer riggers will take the easiest power supply for sounders, lorans and VHFs from ignition switches. Since this is a direct feed from the engine itself it makes good sense that engine noise will feed from this line. Electronics should have their own separate supply direct from the battery to either a common buss bar, or better yet, their own individual circuit breaker that is the right rated amperage for the unit thereby eliminating the need for in line fuses.

This should have you well on your way to getting the most response from your sounder but let me make one more point. You will notice that during July and August your machine needs the power turned to the second hash mark on the gain knob to read properly in 100 feet of water, this will not hold true in spring fall and winter. The reason for this is that as the water temperature drops the water actually gets thicker and will require more power to get the right reading at the same depths. Might sound crazy but check it out.

If your boat serves as both a fresh water and saltwater fishing platform you will note that fresh water requires less power to get good reading at the same depth. The reason for this is that the lack of salt allows more signal to penetrate the depths.

I truly enjoy bottom fishing for cod, blackfish and sea bass and these fish like wrecks and hard bottom. Quite obviously a wreck or a rockpile will show up as a large mark coming up from the bottom. Some of my favorite cod spots are old barges that are heavily broken up and don't show well on the recorders as high profiles, this also is true of clam beds that don't show a profile at all, right? Well they do, but not in the way you are accustomed to seeing them. We assume that all structure comes off the bottom, however, if you look at the bottom reading it has its own profile.

Right now, wherever you are take your hand and hit the rug and then hit a table with the same strength. The table, because it is harder, will make more noise than the rug floor. This will hold true for a broken up wreck or clam bed also. When the sounder sends out the sound waves and they hit a hard object, they reflect more signal back to the machine. This greater returned signal will show as a thicker bottom reading than the rest of your bottom reading thus telling you the degree of hardness of the bottom. Flounder fishermen will find this great for locating mussel beds and freshwater anglers can locate old road bed or stream bottoms in reservoirs that hold fish.

Shark, tuna and swordfish anglers can greatly increase their catch rate with a properly tuned machine. Themoclines will hold fish to a oxygen rich layer in the hot months that not only is slightly cooler but also hold more forage fish for them to feed on. Thermoclines will show up in varying depths according to surface water temperatures and tidal conditions. A thermocline will show up as a constant although very light marking at a set depth. You will note that the thermocline is not always present in the upper strata of water but when it is, a greater abundance of bait and fish will hold to it.

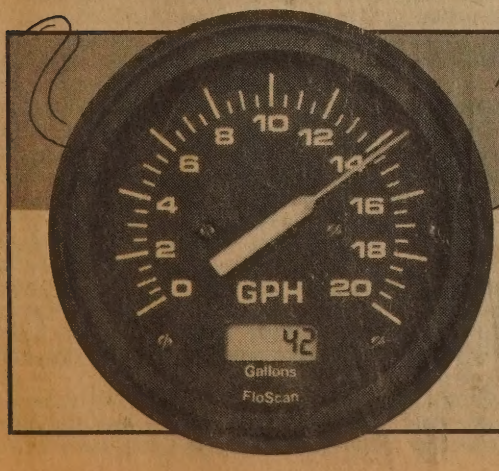
This is another form of structure that we very seldom think about. Longliners, for years, have fished warm water eddies and set their lines at depths at or near the thermocline to present there baits were most of the forage fish are.

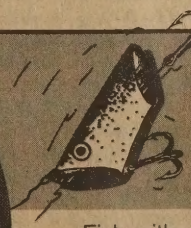
Fresh water anglers will find this to hold true also in the warm summer months when fishing for lake trout. Set your baits or lures a few feet above or below the thermocline and see what happens to your catch rate.

Perhaps the all time greatest question I'm asked about sounders is "Can you tell what kind of fish are there by using the machines?". I can say unhesitatingly that I can tell you what kind of fish are on the machine, and 90 percent of the time I'll be right whether its a color, LCD or chart recorder.

When I fish I observe several things that enable me to do this and they are in order 1) water temperature 2) time of the year 3) water depth. By using this simple 3 step process I have established the S.W.A.G. system of fish identification. The Scientific Wild A-- Guess system works like this. Show me a chart recording that has a heavy large fish concentration around a tight bait school. Tell me the water temperature is 68 degrees in 100 feet of water in July off New Jersey and I'll guess bluefish and most likely be right. Show me the same picture and tell me the water is 52 degrees, it is April and the same depth and I'll guess Mackeral and most likely be right. No great secrets, just common sense. Know the fish and their habits and the machine will most likely make you an expert fish identifier to.

There are a lot more little tricks that can be covered but space only allows so much. So make it a point to come to the Fisherman workshops and we can reveal a lot of the little secrets that will help you use your recorders to their fullest potential. Good fishing and safe trips.





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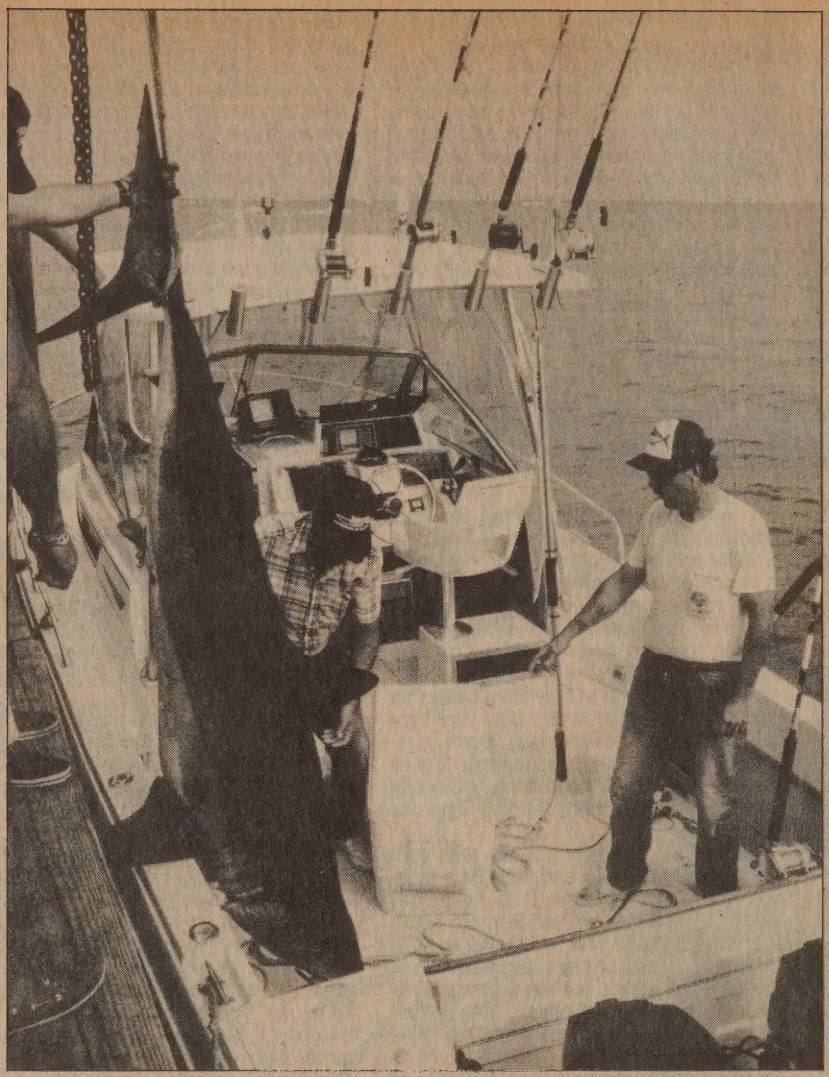
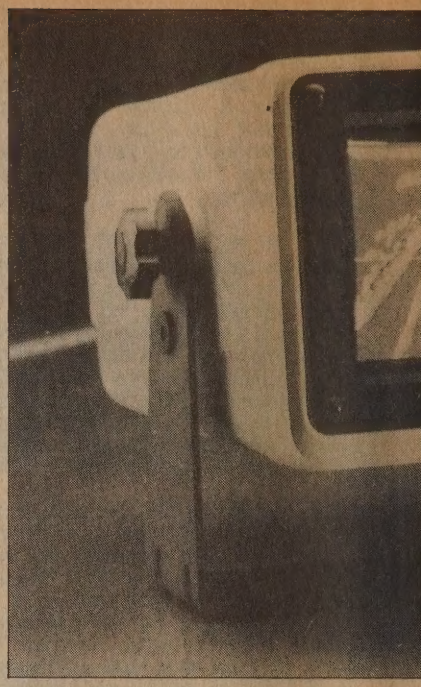
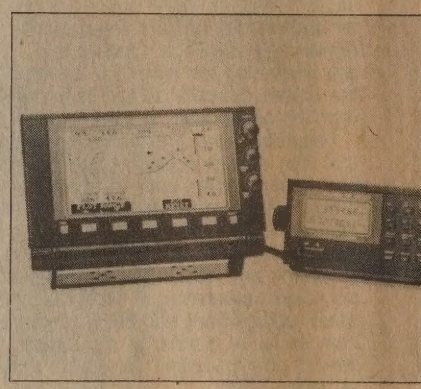






Precise drifting over an offshore wreck produced this 425 lb. mako for the author.

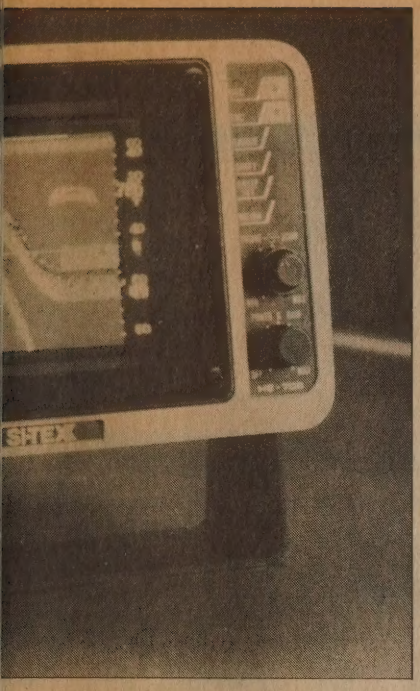
In this article, we'll discuss the core electronics that I consider to be a minimum requirement for most anglers to start out as wreck hunters, such as basic graph recorders, LCD's, CRT scopes and Loran-C units. Next, we'll take a brief look at some of the more advanced implements that will enhance and fine tune your equipment, allowing you to get maximum utility from your hardware and put more fish in the cooler. So let's gear up to go fishing.

The modest pricetags for many of the electronic items we've just mentioned are one of the few bargains left in the world of boating. With hull, motor, rod/reel and dockage prices spiraling more out of sight with each passing season, about the only thing that continues to be a "good idea" for fishermen is the bottom line for these tools of the wreck hunting trade. I can distinctly remember back in the mid-seventies when basic Loran-C units that were a challenge even for an engineering graduate to use would carry a $2,000 pricetag. Now, the wonders of microchip circuitry combined with increased competition have brought these high $ numbers down to earth. It's gotten to the point where the current state-of-the-art machines can be had for somewhere in the $600 to $800 range, and they can do practically everything except change your socks with a one button, user-friendly operation. Anyone who is serious about catching more fish on the wrecks can "buy in" to this game with as little as a $1,500 investment.

And what will you get for this pricetag? If you employ a modicum of comparison shopping and buy during the boat show blitz, you should be able to procure a top-quality Loran-C unit with a minimum 100-waypoint memory; a 4" screen computer graph or 6" screen CRT color scope that will give clear readings down to 1,000-feet with hundreds of ranges and combinations on a variable bottom; a transducer switch box with both wide and narrow cone angle transducers; a 4" card high-speed compass; a seawater temp gauge. Sound too good to be true? Let's take a closer look at the capabilities we've just purchased.

Loran-C machines from Apelco (DXL-6100), Furuno (LC-90), King (8002), Micologic (Explorer), Raytheon (570), Si-Tex (790) and others all fall into the affordable and 100-waypoint-capable category that we've described. I've used either the Apelco or Raytheon units on my last four boats and have never-ever experienced any trouble with the hardware. They're extremely easy to use, typically requiring only a single keyboard entry or movement to get the data that you request. Both display a full five lines of information for current position, speed, distance to go, time to go, recommended course, waypoint number, and course made good, all on a large, easy-to-read LCD display. This two-year warranty isn't bad, either! A few of my fishing buddies have installed the Micrologic units on their boats, and they've got nothing but raves for them, too. From talking to the Fisherman readership at the wreck seminars, it's the general consensus that any of the above lorans should give you stalwart service at a price that's right. You can probably buy more frugally, getting less capability in return, but my recommendation would be to spend the $600 to $800 for these aforementioned second-generation lorans to enjoy easier and more efficient navigation when you're travelling from wreck to wreck.

Fishfinders have come a long way in the last decade and are also more reasonably priced than they were in the



Sitex HE708 provides color CRT capability at an affordable price.

Jumbo seabass swarm over an ocean wreck.

Armed For Wreck Hunting

Interphase Data Center will guide you on a plotter from wreck to wreck.

By John N. Raguso

1970's, for the same reasons mentioned above. The biggest switch is that you can now have your choice of either a computer graph recorder, hig-tech LCD, or 8-color CRT scope. Prices for these units will range from about $350 on the low side for the graph recorders and LCD's, to about $700 or so for some for the basic color scopes.

The bulk of my experience has been with the graph recorders, and I've owned a pair of Si-Tex machines, two Eagle Mach 1's, and a Lowrance X-16. When you combine the latter with the optional switchbox and dual angle transducers, it's tough to find a more reliable and accurate recorder than the Lowrance X-16. It provides thousands of different bottom expandion combinations, plus a paper record of the day's trip so you can add it to your log and study it for future excursions. The switchbox lets you alternate between an 8-degree and a 20-degree transducer at the flip of a button. Use the 20 for maximum sweep of the intended area, and then narrow-focus with the 8 to pinpoint the exact spot you want to fish. The majority of the graph shots I've included in the Atlantic Wreck Series over the years have been produced by the X-16. It's definately worth the extra bread! Quality machines are also offered by other manufacturers like Apelco, Furuno, and King, with some of these featuring 5" or 6" height screens, as well as pop-in paper cartridge loading, and alternate frequency options of either 50Hz or 100Hz for greater depth penetration.

LCD's are challenging the graph recorder's dominance of the fishfinder market, and in just a few short years they've come a long way. Spurred on by the freshwater bass-catchin' bretheren, these liquid crystal display machines have made the successful transition to saltwater. Many anglers prefer these type of machnes because of their case of use (no paper or stylus to change), and now that they're offered with high resolution screens that feature a greater number of pixels to the inch, they are becoming more of a viable option. Some of the second generation units from Lowrance, Eagle and Interphase have introduced larger screened LCD's that will compete with even the most elaborate color scopes, including such standard items as split screen, daual-frequency readings; power up to 375 watts RMS for greater depth penetration; and even plotting functions to show your day's track. The Lowrance folks have also introduced what they call their "Broadbeam" transducer, which is a combination of three of their 20-degree TD's married together to provide the user with a 60-degree sweep of the bottom. You can select any one of these either individually or all at once to observe objects which are both directly under and also off to the sides of your vessel. It's the closest thing to side scan sonar yet for the average Joe, but at an affordable price. Other manufacturers such as Humminbird, Apelco, King, Si-Tex, Impulse, Bottom Line, and more also offer units whose state-of-the-art is evolving on an almost weekly basis. About the only negative I can find with some of the later machines is that there's no record of the day's events, but for some anglers, this is a problem that they can live with.

Color scopes have been the rage for the last three or four years, but their super-upscale pricetags and bulky profiles have kepts many boaters from joining the CRT bandwagon. But all this is changing for the better. Si-Tex, Koden, King and Apelco are doing their bit to initiate a price war in this category, and we all stand to benefit from this type of dogfight. Since its introduction last season, the Si-Tex HE-708 has been a big success, and even more so at sale prices in the $500 ballpark. With a range down to 1,200', a zoom feature, autorange, anti-glare scren optics and a display that offers a simultaneous readout of depth, diameter of search area, plus seawater temp, is there any wonder why most boaters love it? I've got some experience using the Koden CVS-102, and this is also a high-quality and reliable color scope that is priced within our "buy-in" project's price guidelines. This 6" screen is available with a dual frequency transducer that adds to the mahine's overall utility, and produces a high-visibility display even in direct sunlight. At the upper end of our price category spectrum are the Furuno FCV-662 and Raytheon V-900 CRT's. These offer simultaneous split screen displays that are a huge plus for the serious wreck fisherman, along with all of the standard sea temp, distance logged, digital depth, and speed readouts. Many of these color scopes have made significant inroads into solving their one major problem... sunlight. Through judicious use of glare shields and optical coatings on the screens, this category has taken a giant step forward.

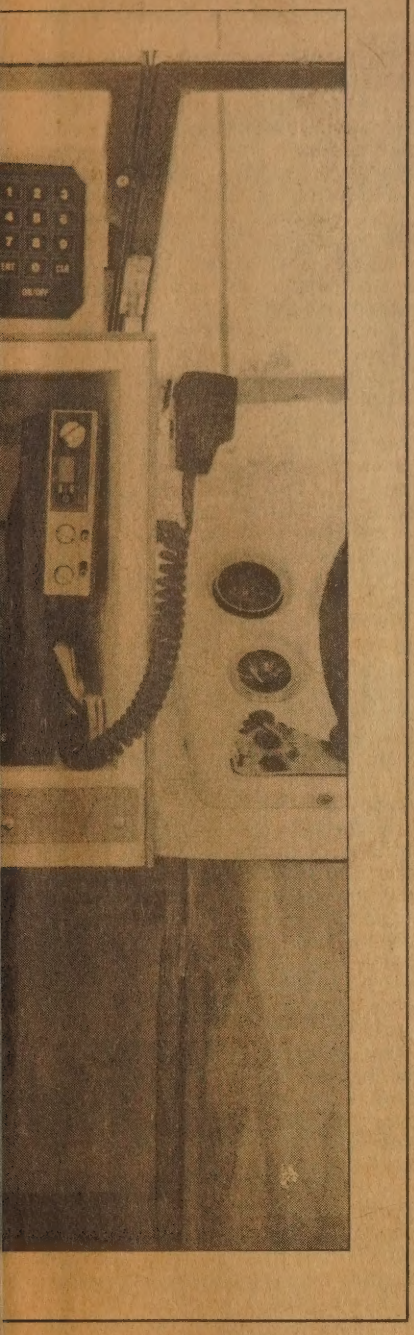
As a final step in completing your shopping list, don't forget to include the best no-spin compass you can afford. What good is following your loran's recommended course line if your compass is spinning like a top and you can't get it to stay still for a reading? You should also learn how to navigate with a compass, solo, just in case your loran takes an unscheduled vacation. A sea temp gauge is also a key tool, in that it will give you surface temps at your selected wreck, just in case trolling or drifting is on the agenda.

Well, that about covers it for now. Be sure to hit the boat shows in the new year to get up to speed on the latest gear and for the best prices. I'll see all of you wreck hunters out on the briny next spring.

2 RECORDERS

Author uses an Eagle VG-200 (center, in the console) and a Lowrance X-15 paper machine, bottom, on his boat.

By Pete Koutrakis



For years, I was one of those fishermen that insisted that my experience would lead me to fish. Those fishfinder units, to me anyway, were nothing but a new product that was designed to get more money out of my pocket. Well, it happened not only did these units succeed in lightening my pockets, but they helped me locate and catch fish with less of an investment in time. I was able to spend more time catching fish and less time locating them. The first unit I bought was a "flasher". It served me well for the time I used it. As time went on, I became more and more interested in the new units that came on the market.

Lowrance came out with the X-15 graph recorder. If the flasher was as good as it was, just think how good the graph recorders would be. It took me a little while to justify spending that kind of money, but I was able to convince myself that it would be a good investment. I bought one of the first machines to hit the market. It was one with the original metal cases. Boy, was I glad that I made the investment! Not only did I spend less time looking for fish, but I was able to drop the front of the case and make notes. At the end of the day, I had a hard copy of the area that I had fished and notes of the different conditions.

The graph machine was far superior to the flasher, as it gave the fisherman a "picture" of the bottom. It was able to show individual fish as well as schools of fish. The more I used the machine the better I liked it. Not only would the graph machine give a good picture of the bottom, but it could separate fish from the bottom. This feature came in handy in both fresh and salt water fishing. After using the machine for a season, I was able to determine the species of the fish I was seeing on the recorder. This was done by the size of the arch, and the lightness or darkness of the picture. The size of the arch also determined the size of the fish. By studying the arch, I was able to tell if the boat was over the fish or to the side of it.

The more that I used my graph recorder, the more i enjoyed it. I was convinced that by having a graph, all other machines were just fancy "frills". Soon after the paper machines became popular, the liquid crystal display, or LCD units hit the market. Here we go again! More technology, more equipment, no more room for mounting, and more investment. These units were much smaller and boasted that the need for paper, a major expense for serious fishermen, was eliminated. It was true, but if you had one machine why the need for a "duplicate"? Again, I resisted progress.

More and more of my friends invested in the new "LCD" machines. The majority of these fishermen boasted about the pictures these machines delivered. I still resisted change!

As time progressed, more technology became available and at reasonable expense. It became harder and harder to resist change. But I still resisted! Better and better "LCD" machines became available with more pixells and improved resolution. They were now being referred to "LCR" machines, liquid crystal readout. I still held my ground on the basis of the difficulty in seeing the displays in bright sunlight and that it was a duplicate machine. With the continued improvement in machines, it became harder and harder to resist trying one of these machines.

Well, it happened. A new generation of machines hit the market. This time they were video machines. At first, I was able to resist temptation and avoid investing in another recorder. I justified my resistence to the new video machines by convincing myself that these machines were too expensive and took up too much room on the boat. I continued to hear the "horror" stories and the need for a college degree to operate the color machines. It was easy to resist those machines, but became more and more difficult to resist the "amber" machines.

The time had come to look at this continued temptation in a logical manner. What were the advantages of a paper machine. Well, the biggest advantage was that the fisherman had a hard copy of the area that he had fished. The picture that the paper graph delivered was excellant, and targets could be separated in as little as one foot. Individual fish coud be separated from the bottom with the use of the "white line" or the "grey line" feature of the paper machine. One of the biggest features of the paper machine was the capability of using two transducers. The eight degree transducer was perfect for deep water, while the twenty degree transducer was unbeatable for shallow water.

Another advantage of the paper machine was the ability to drop the front window of the machine and make notes right on the paper, a definate help when documenting a fishing area. A big advantage of the paper machine is being able to see the screen, even in bright sun. The range selection in the Lowrance is absolutely fantastic. The number of ranges that can be selected is almost infinate. Any range can be selected as long as it is in ten foot increments. For example, 0 to 10 feet, 20 to 40 feet, 50 to 100 feet or 180 to 200 feet. Any combination will work.

As fantastic as the paper machines are, they do have disadvantages. The biggest problem, as far as I am concerned, with paper machines is their unending hunger for paper. Even with the paper speed control, huge amounts of paper can be used on each fishing trip. I generally use at least one roll of paper for each fishing trip. At a cost of $8.00 per roll, this expense mounts up fast.

Along with the expense of paper is the regular need to change the stylus. Each stylus will generally last through two or three rolls of paper. With the expense of paper and stylus, I would hate to think about how many "LCD" and video machines I could have paid for.

About the only other disadvantages that I can think of is the difference in size of the two machines. But this depends on the machines in question. One annoying, but minor, disadvantage is the dust that is created by the stylus burning the paper. This dust collects on the inside of the machine and will quickly cover the window. Granted, a quick wipe of the window with a damp cloth will solve this minor irritation.

For the fisherman that wants the most for his money, without having to invest in two machines, the paper machine would be my choice. But like most fishermen, I want it all!

This is why I have invested in a second machine, a video graph.

After researching model after model of "LCR" and video machine, my choice of a unit was the Eagle VG-200. This unit has one advantage over many of it's sister machines in that it is very simple to operate. After one fishing trip, I had the machine mastered.

The machine offers a good selection of functions including a sensitive gain control, variety of ranges with zoom features, shallow and deep alarms, which also act

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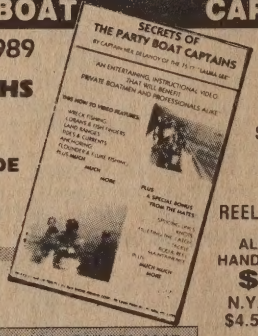

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as fish alarms, a sweep, that regulates the speed at which the picture passes over the screen and four different modes. Each mode determines the different display features.

The biggest advantage of the video graph over the paper machine is the fact that the use of paper is eliminated. This is a big savings. After using the machine for only one season, I have paid for the unit in paper savings alone. Another feature that is welcomed is the fish and depth alarms. At first, I must admit, this feature was only regarded as a "frill". As I became used to it, I liked it and relyed on it. Like anything, we are creatures of habit and strongly resist change of any kind.

The video machines do have disadvantages though. One of them is they are difficult to see in direct or bright sunlight. Most machines come with a sun hood or shield. Even with this improvement, the screen is difficult to see and the different shades of brightness can not be determined. The shades of color displayed help to determine the size of the fish and the consistency of the bottom. It also helps to determine if an object is solid, like the hull of a ship, or if the object is less dense.

With the video machine, I can use only one transducer. This proves to be a bit more difficult to use in deep water, but a problem that can be overcome. As mentioned earlier, there is no permanent record of the area covered.

One thing the video machines have over the "LCD" machines is that the displays are much more defined and closer resemble the display of the paper machines. This may seem odd, but, the hardest thing for me to get used to about the video machine was that you read the display light on dark. On the paper machine the display is dark on light. I always wanted to adjust the video machine so that the background was light, to resemble the paper machine. After awhile, I got used to it.

After all things have been considered, I now feel that I have the best of both worlds. I use each machine for every fishing trip and am satisfied with the advantages and disadvantages of both machines.

For the most part, I keep the video machine running all the time until I see something that I want as a permanent record. At that time, all I do is switch on the paper machine and make my notes right on the graph.

One thing that I forgot to mention is that there is usually interference that shows on the video machine if it is mounted too close to other electronics or radios. This is a common problem that can be easily corrected by the use of noise filters. These filters can be purchased at any electronics store such as Radio Shack. They are easily installed and work great. Expect this problem, especially if you don't have a yacht and unlimited space. Even in large boats, fluorescent lights, televisions and micro wave ovens can cause RF noise.

If the budget can stand a little jolt, I would strongly suggest the use of both machines, that is until revolutionary technology dictates the use of a third machine. How about a side scanner?

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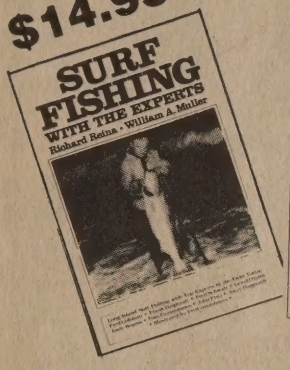

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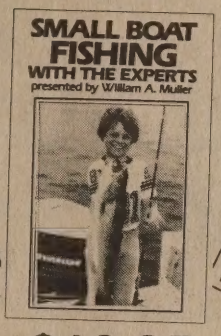

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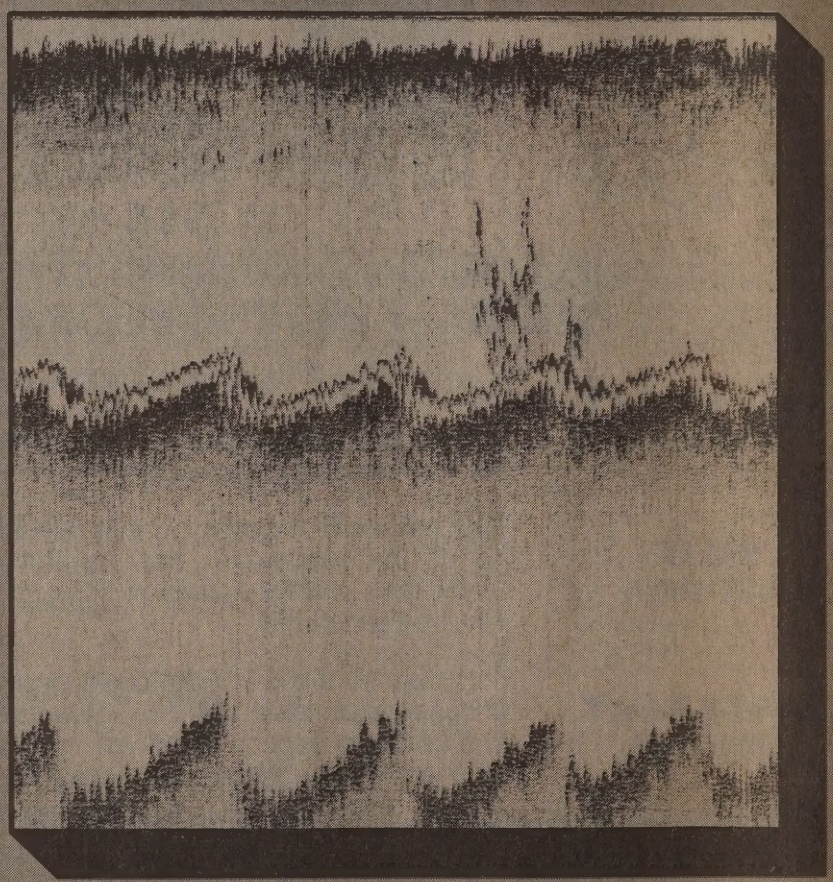
A LOOK AT THE BIG PICTURE



By Brion Babbitt

What all fishfinders have in common is that they all use a transducer mounted somewhere on a boat's hull and use it to send and receive high frequency sound waves. The "black box" function of the fishfinder is to, basically, monitor the precise elapsed time between sound wave emission from the transducer (the water's surface or zero depth line) and return of the reflected sound wave to the transducer. The returned sound wave—usually referred to as the "echo"—is caused by the lake or ocean bottom and any objects between such as baitfish schools, game fish, suspended debris or, perhaps, a thermocline. The elapsed time is directly proportional to the depth of the water and the depth of any bodies detected within the water column.

The standard transducer frequencies for years have been 50 kHz and 200 kHz; the lower frequency offers better depth penetration and a larger cone angle (coverage area of the bottom), while the higher frequency sports improved resolution. Resolution is the ability to differentiate between closely spaced targets. There are, however, some manufacturers who offer a transducer operating at some intermediate frequencies in an attempt to blend the best features of the two traditional operating frequencies.

But, where today's fishfinders differ dramatically is in format of display, that is, whether they are a stylus-on-paper "chart" recorder or a liquid crystal display (LCD) screen, or a video cathode ray tube (CRT) screen. Within the video CRT format display there is a further distinction to be made: that of monochrome (a single bright color on a dark background screen) and multi-color. The multi-color screen employs a variety of colors and is the CRT format most similar to a color television screen.

The paper or chart recorders have been around the longest and are proven machines. They work by allowing a paper screen to scroll past a stylus that marks a zero transmission line (surface), the bottom and any detected objects in-between. Advantages are that the paper fishfinder offers good resolution, a permanent record of the bottom surveyed (along with printed Loran C coordinates on some models if interfaced with a Loran) and good viewing of the paper screen from all angles within the boat including in direct sunlight. Disadvantages are that chart paper doesn't come cheap, is an ongoing cost, and that because there are mechanical moving parts needed to image the paper, there may be occasional breakdowns or the need for preventive maintenance of the chart drive or stylus mechanism.

An LCD format screen, as with the paper chart fishfinder, offers advantages and disadvantages: no paper is needed to maintain use of the instrument, the LCD screen is virtually maintenance-free and many LCD models are among the cheapest of any fishfinding devices to purchase; but LCD units, despite many recent technological advances such as more pixels per inch, offer poorer resolution and viewing angles from within the boat. "Pixels" are the little blocks that comprise the LCD screen. The smaller the block or pixel, the more detail that can be shown; hence, the better the resolution between objects. A complaint often heard from fishermen is that the LCD screen seems to disappear when viewed from off to the side. Different LCD models vary considerably in the total number of pixels per square inch and in size of the screen. Some manufacturers that produce LCDs with a relatively high number of pixels per square inch include Lowrance, Eagle, Impulse, King, Micronar and Si-Tex. Despite the graphic display of any individual LCD unit, the real limitation with most units is that the pixels are either on (dark) or off (screen color)—there are no in-between shades of gray to indicate a weak echo.

Of the video monochrome and color CRT models, advantages include a maintenance-free display, resolution and cost comparable to a high quality paper chart machine, and with the multi-color units a high degree of discrimination between relative echo strengths. Some multi-color models aid the viewer by providing a color bar graph by the screen to correlate a certain color with echo intensity.

Disadvantages of the video CRT instruments are that they, along with the LCD displays, offer no permanent record of the bottom surveyed and often are difficult to view in direct sunlight, depending on the exact color system chosen by the manufacturer. The orange-amber monochrome systems seem to give the best visibility under varying conditions of sunlight. Some vendors, however, provide a screen shield to protect the user's view from "washout" by bright sunlight. Again, though, viewing angle may be hampered from various vantage points in the boat's cockpit.

The CRT video screens are the biggest technological breakthrough in recent years since television-type displays previously were only available on very expensive commercial fishing boat sounders and sophisticated sonar scanning systems.

A monochrome CRT unit display consists of a bright color such as amber on a dark screen background; orange, for example. As with the LCDs, CRT screens consist of pixels, but many thousands more per screen than a similar sized screen on a LCD unit. The CRT screen is scanned very rapidly by an electron beam much as a television CRT screen is. Each fast sweep provides an update in "data" and the pixels are adjusted accordingly. Once the viewer adjusts mentally to the significance of each individual color of a multi-color CRT unit, a wealth of information is available regarding the signal intensity of the return echoes. Certain colors, depending on the manufacturer's selected code, will indicate weak returns such as small baitfish schools or a thermocline, while other colors will show a strong echo characteristic of a hard bottom or big game fish. But, overall, the best CRT units are very comparable in performance to a high quality paper chart machine—only without the need to constantly purchase chart paper.

LCD screens are not scanned wtih an electron beam as with the CRT units, but rather operate on a principle indicated by their name. The screen consists of a special material known as a liquid crystal whose visibility (dark—on, or screen color—off) hinges on its precise molecular alignment and degree of crystallinity. The crystallinity governs the resultant optical properties of the liquid crystal and thus of the pixels. The liquid crystal material is sandwiched between sheets (one being the viewing screen) of glass that are electrically polarized. Polarization on or off directly controls alignment of the liquid crystal material and the dark or light optical appearance of each and every pixel. The LCD material itself is extremely thin and this is primarily responsible for the incredibly thin, compact LCD units available today.

LCD units that are rather limited in competing with CRT and paper models that have good "whiteline" or "grayline" capability (the electronic ability to discriminate between true bottom and fish feeding close to the bottom) can overcome some resolution problems through the use of a "zoom" feature. Zoom permits expansion of a portion of the entire screen to full scale, thus circumventing the pixels' limited resolving capabilities over the big picture. It is important to remember, regardless of a manufacturer's claim, that LCD resolution is governed not by **total** number of pixels, but by the number of pixels **per square inch.**

In purchasing any fishfinder, irrespective of mode of display, it is vital to decide beforehand what features are important to you. Because, as with anything, there are advantages and limitations with each and every model that will ultimately describe its overall performance.

Getting The Word Out

Distress, Safety and
also EPIRB's - Channel
16

Public Correspondence
(Marine Operator) - Channels
24, 25, 26, 27, 28, 84, 85, 86, 87, 88

Coast Guard Liaison and
Intership Safety - Channels
6, 22A

Non Commercial
(Intership and ship to coast) - Channels
9, 68, 69, 71, 72, 78A

U.S. Government - Channels
21A, 23A, 81A, 82

International - Channels
7, 19, 22, 23, 78, 82, 83, 65

Channel 17 is limited to
1 watt power for communications
with state and local govt's.

Port Operations - Channels
1A, 5A, 12, 14, 20, 63A, 73, 74, 77

Steve Wendell

The pale white circle gradually turned yellow, as the sky around it darkened. As the moon rose completely above the horizon, its reflection, combined with the motion of the sea created a yellow brick road that stretched from the edge of the darkness right up to the transom.

Suddenly, the tip of my ultra light rod arched almost into the water, and reminded me that I was still in the middle of a battle with a bluefish of ten pounds or more. The four pound test line payed out smoothly, but grudgingly, as the Penn 220 did its best to slow the fishes dive to the bottom. Aided by a strong full moon tide, that was still about an hour away from peaking, the fish was pretty much doing what he wanted against the ultra light tackle. When the fish reached the end of its run, I began dropping the rod tip, and reeling in line. Then, slowly lifting the rod tip against the fish until it came to the surface. "He looks about the same size as the others," I said to my fishing companion, then unhooked him, and returned him to the water.

By this time, it was completely dark, and we decided to head back home. The day, or rather the afternoon, had been a good one, being one of the "Good Combination" days, when a full or dark moon high tide peaks right around dawn or dusk. I usually find that the fishing on this type of day justifies the trip. For the past three hours, we had had all the action we wanted with a school of eight to twelve pound bluefish. So much in fact, that I had chosen to spend the last hour using ultra light tackle to finish out the day, and had landed two of the three fish I had hooked, both in the ten pound range. Of course, the one that got away was easily twenty pounds or more.

As we headed home, the VHF radio crackled, "This is the Rocky Two," just clearin' the inlet, lookin' for a report on some night blues. Anybody out there?" "Over."

Noticing that the radio was on channel 16, I thought to myself, "Yeah, he'll get a bluefish report alright."

The radio crackled again.

"This is the Rocky Two, lookin' for a bluefish report, Come back."

"Rocky Two, Rocky Two, this is the Coast Guard, you are transmitting on an emergency channel, switch to another channel, switch to another channel."

I thought to myself, "There must be a lot of new fishermen like ole Rock out there that really don't understand their radios, and what a useful tool it can be." So after contacting the Marine Police, and the Coast Guard, I present the following for your information.

What is VHF Radio? VHF is short for very high frequency, and refers to the range of frequencies covered by the numbered channels on your set. For example, channel 16 is 156.800 Megahertz, but as long as your dial reads 16, that's all you really have to know. If you happen to own a set equipped with a synthesizer, that allows you to tune to any of the channels in the marine mobile band, you will be able to cover the entire scope of the band. If your set is not so equipped, you will only be able to monitor or use the ones that are already programed into the unit. This is a point to keep in mind, if you are going to buy your first radio, or are thinking about upgrading your present one. The Marine Mobile Band covers roughly the frequencies from 155.000 to 163.000 MHz., although there are other bands. On land, different ranges are used by taxi cabs, and law enforcement, but the above frequency range is reserved for marine use.

The main reason you need a VHF radio, is to yell "Help!" when there is nobody else around. The VHF is a useful tool to all forms of navigation from the pleasure boater, to the commercial fisherman, to the majestic "Queen Mary II," for communication. There are rougly 70 or so channels in the marine band, and most of them are designated for certain uses. On most of them, your transmitting and receiving are done on the same frequency, but with the International channels, there is a seperate frequency for each function, this really doesn't mean much to you, since your set will automatically make the changes.

Another group of channels are reserved for Public Correspondence. These are commonly known as Marine Operator channels. These channels allow you to contact the phone system on land, and make a telephone call to anyplace you would normally be able to call from you home phone. Only in America is it considered a necessity to make a $6 phone call to a restaurant that you are floating around in front of, to reserve a table. They can also be very handy to rearrange plans, should something unexpected arise while you are in pursuit of our finned friends.

Another group of channels you should learn to rely on, are the weather channels. These are "Receive Only" channels, meaning you should not transmit on them, only listen. These will give you up to the minute weather information for a localized area, and constantly up date you on any changed.

There are also several channels reserved for communication with the bridges in your area. If you only have a 17 footer, these channels won't be of much use to you, but when you finally move up to the 32 foot class, with a tuna tower, you will want to become familiar with them.

As I mentioned earlier, the most important channel is channel 16. Channel 16 is is the emergency channel, and it is monitored not only by the Coast Guard, but also by many commercial ships, limited coast stations, and some aircraft. VHF radio is line of sight transmission, this means you must not be below the curviture of the earth, in distance, from whomever you want to talk to. For this reason, the Coast Guard monitoring stations install their antennas high up on towers, to give them the proper coverage. Channel 16 should be used only for distress calls, not for normal traffic. After establishing contact on 16, you will normally be directed to change to another channel, to complete whatever must be done.

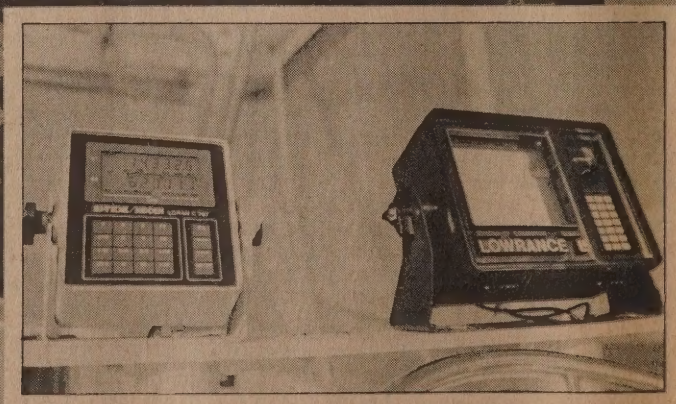
One last thought, when purchasing a VHF radio, keep in mind that you are only going to pay for the radio once, but for the next few years, every time you take the boat out, you are going to rely on the unit to possibly save your life. Don't economize and don't just buy the one the salesman hands you. Do some research, and make sure you are getting the radio that will do what you want it to, and monitor the channels you're going to need. Also, remember that even though it may seem like a bargain, in most cases, when you buy an inexpensive house brand, or closeout, you will actually be paying too much.

Channels **15**, and **WX1** thru **WX9** are "Receive Only" channels for ocal weather and environmental info.

Commercial (Intership and ship to coast) - Channels **7A, 8, 9, 10, 11, 18A, 19A, 67, 79A, 88A**

Channels **13** and **67** e for communication with bridges.

Dynamic



The dynamic duo of a depth finder and a Loran receiver make an electronics team that help inshore boaters catch more fish while trolling, drifting and anchoring over wrecks and other underwater structures.

Trolling an inshore ridge by using a Loran to run a grid pattern and a depth finder to watch the rise and fall of the bottom contour resulted in this bluefish for Linda Barrett.

Duo

By Pete Barrett

In the dark ages of sport fishing, about 25 years ago, fishermen relied on their eyes to find fish. The best charter captains were real good at it, too, and could visualize what was under the water's surface with deadly effect as they scored on cow bass and bluefish that were scawny in comparison to today's choppers.

Tide rips meant a strong, sometimes violent rubbing of two currents or the edge of a steep drop off or a shoaling bank. Slicks on the water's surface gave away the location of bait schools, sometimes schools of game fish like striped bass and bluefish. Buoys were obvious markers of channel edges that not only guided ships but marked the traveling routes of game fish as they shifted their feeding areas with the changing tides.

Shore ranges played a vital role in finding inshore structure like wrecks, banks and ridges, shoals, drop offs, reefs and under water rock piles. Lining up easily seen land marks on shore helped fishermen locate the hot spots. Looking at an old log book would find entries like, "Line up the green house with the smoke stacks, the tower with the arch on the motel" to pin point a good bass reef.

In those days of old, a fisherman had to be alert and in close touch with his surroundings, something hard to do for many weekend fishermen who couldn't spend their daily lives on the water. The first of the great equalizers, the depth finder, came into popular use in the 1960's. It enabled every fishermen to literally peer into the water and "see" the changing underwater structure that held game fish, even the depth at which bass, blues and weakfish were feeding.

Still, the fishermen had to locate the structure before he could use the depth finder to see the structure. Shore ranges remained vital until Loran came into popular use. Now anyone coud read the numbers displayed on the face of the Loran and locate a good offshore hot spot. Even small lumps, wrecks and steep drops offs could be found with ease once the numbers were found. And, fishermen could now travel to more distant fishing locations far from sight of any visual land ranges.

The combination of fishing with a depth finder to see the structure and a Loran to find the structure made a dynamic improvement in everyone's ability to become a successful fisherman. The combination, when thoughtfully used, is hard to beat and today's red hot captains use these electronic wonders with as much finesse and expertise as their counterparts of 25 years ago, who relied on shore ranges and visual signs on the water's surface.

The latest crop of depth finders include simple digital units that display numbers to tell the depth, graph recorders that make lasting marks of fish and the bottom on special recording paper, liquid crystal graphs (LCGs) that display and color videos recorders (CVRs) that look like TV screens and display fish and the bottom in various colors. With the exception of the digital depth finder, they all do basically the same thing - tell the depth and show if fish are present.

Lorans are unique radios that receive special timed radio waves which the Loran receiver displays as pairs of numbers, called TDs, which correspond to navigation lines of position (LOPs). An exact position is obtained when 2 LOPs criss cross one another. Most all the navigational charts sold in marine supply stores have pre-printed LOPs on them so it's very easy to read the numbers displayed by the Loran and then look on the chart to find the exact location of that good fishing spot.

So how do you use this team of electronic boxes? First the hard part, getting a reliable supply of numbers. While years ago when Loran was still relatively new to most boating fishermen, Loran TDs for wrecks and hush-hush offshore locations were carefully, jealously guarded secrets. Today there are many sources of good numbers. Several excellent fishing charts are available with Loran numbers printed on the back of the charts. The Fisherman Library's "Fisherman's Guide to Loran C" has 1300 numbers for fishing structure and wrecks while several dive books also give TDs for wrecks. Depending on what source you purchase, a lifetime of TDs will cost less than $30.

Another good source of LoranTDs, usually at no cost other than the investment in a NOAA navigational chart, is your local tackle shop. Most tackle stores will have at least one staffer who is familiar with the well known fishing areas and can help you locate them on the chart. It helps to make the chart more readable by tracing over the contour lines already printed on the charts in pale gray lines. Use blue, red, green, etc., premanent ink marking pens to enhance the contour structure lines to make the best areas show up clearly. Even if you don't yet know the names of the lumps and ridges you see on the chart, you'll at least have a start at visually seeing the best structure that will hold fish.

A watchful eye on the local fishing reports will indicate good fishing within the last several days. Let's say The Fisherman and also a local daily newspaper have identified good action with bluefish, bonito and false albacore at the Hot Lump. Find the Hot Lump on the chart, or take the numbers from a book and transpose them to the chart, to locate the Hot Lump.

All current Loran receivers allow the destination fishing area to by plugged into the Loran by pressing the number pads on the keyboard. The Loran will automatically tell the fishermen the compass course to travel to the fishing area, the distance and the speed at which the boat travels. The boat should be slowed down when the fishing spot is about a half to quater mile away. The depth finder is turned on and watched to verify when the edge of the lump is marked on the recorder. Compare the true location of the lump as shown by the recorder with the numbers used to navigate to the lump. If they are different, write the true numbers down in a special notebook that will build into a gold mine of Loran information over the years.

When looking for wrecks, the Loran TDs obtained from books or charts may not always match what an individual Loran will display. It is not uncommon to find a difference of 4 tenths of a microsecond from one Loran to another. If the recorder does not show the wreck after the TDs are run, it is necessary to run an expanding circle pattern around the original TDs. Many wreck fishermen find it handy to drop a float at the location of the original TDs as a reference as they run east, then south, then west, then north in an ever increasing circle from the float as they search for fish and the wreck. Once the wreck is displayed by the recorder, add the true numbers to the Loran note book for future reference.

The grid search pattern also help find feeding fish. Large offshore ridges may be a mile or more in size and bluefish may not be located at the exact spot that you stop when navigating to the ridge. The recorder may be marking the structure, but no fish. I run an east to west search pattern, trolling if that technique is appropriate to the season, or at a slow speed while watching the recorder for evidence of fish.

While trolling east, I run until the bottom line goes deeper, indicating I'm off the structure, then turn west on a set slightly to the south of the first set again watching the recorder as it marks the rise of the structure and the drop off at the other side. This back and forth search or trolling pattern is repeated until fish are finally marked. The numbers are again jotted down in a notebook so I can return to that spot repeatedly during the rest of the day.

Many times wind and tide work at angles to one another so the resulting drift pattern may not be what the fisherman thinks it is. A stiff south breeze gives the impression the drift is to the north, but a slight current from the northwest will move the boat not due north but to the northeast. After a drift is completed, the tendency would be to run a compass course straight north to the starting point but this new starting point may be several yards or a hundred yards from where the first drift started. The second drift may prove to be fishless. Writing down the TDs of the start of the drift allows the fisherman to get right back on the fish time after time.

Shark fishermen make excellent use of the dynamic duo by first using the Loran to pinpoint the ideal starting position of the day's drift and then using a color scope, digital or LCG to mark the changing bottom depths. Before the wide spread use of Loran, shark fishermen would run timed compass courses to the offshore

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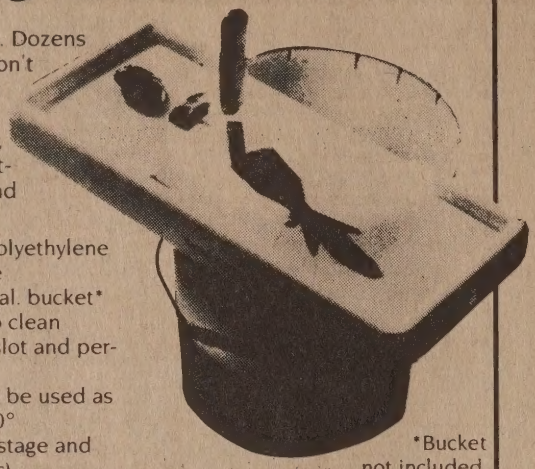

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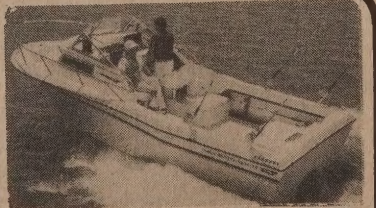

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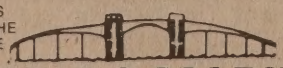

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grounds and it was pot luck to hit on the best structure. Wind and currents would both combine to put the boat off course and after 30 miles of guess navigation it was usually pure luck to be in a productive spot.

Now shark fishing is much more predictable. Before heading offshore the shark fisherman checks the wind direction and looks at the chart to plan his attack selecting a good piece of structure from the enhanced chart that will take advantage of the wind as it pushes the boat along during the drift. The fisherman plugs the TDs into the Loran and navigates to the exact starting position.

Freshwater bass and lake trout fishermen are beginning to make good use of Loran. Although there are no Loran overprinted charts for inland lakes (except the Great Lakes), fishermen working reservoirs and large impoundments, even rivers use Loran when a good fishing location is discovered with the depth finder. The angler would write down the Loran TDs of a steep drop off, a hole, channel edge or other structure that held bass in a notebook and he could then return to that spot time after time to find good fishing on future trips.

Bay fluke and weakfish anglers do the same thing and I know several light tackle specialists who have a log book full of TDs for shoals, bars, sloughs and deep holes for places like Long Island's Great South Bay and New Jersey's Barnegat Bay that hold weakfish and fluke. One fly rodder who takes school bass around the Norwalk Islands uses a Loran to get into small spots along rocky reefs that hold school stripers.

Offshore trollers looking for school tuna on the 20 to 30 fathom banks or larger tuna and billfish at the edges of the Shelf keep a close eye on both the depth finder and the Loran to work the most effective trolling pattern. The goal is to criss-cross structure like banks, sloughs and deep holes or to work a zig-zag pattern along a deep edge. The depth finder ticks off the depth while the Loran tells the fisherman exactly where he is even though far from sight of land.

It can pay off in an extra tuna or two if the TDs of a hook up are jotted down on a note pad. Once the tuna is landed the captain can run a short course back to the hook up spot to try for another strike. It is common for tuna to hold in a relatively small area while working bait and the ability to get back to the exact location of a hookup can add valuable fish to the day's catch.

Just like for inshore bluefish, a grid pattern that takes the boat over all parts of the offshore structure will pick up more fish. I'm amazed at trollers who drop several hundred dollars in fuel to get to the canyons and then troll a straight line with no pattern to the direction or location of the structure edges. For maximum hook ups, the structure can only be worked with a depth finder and a Loran.

The dynamic duo is a vital part of today's bag of fishing tricks and the more we use them, the more we learn about them as they help us catch more fish. Keeping an eye on both the depth finder and the Loran will definitely pay off in more fish and more enjoyment.

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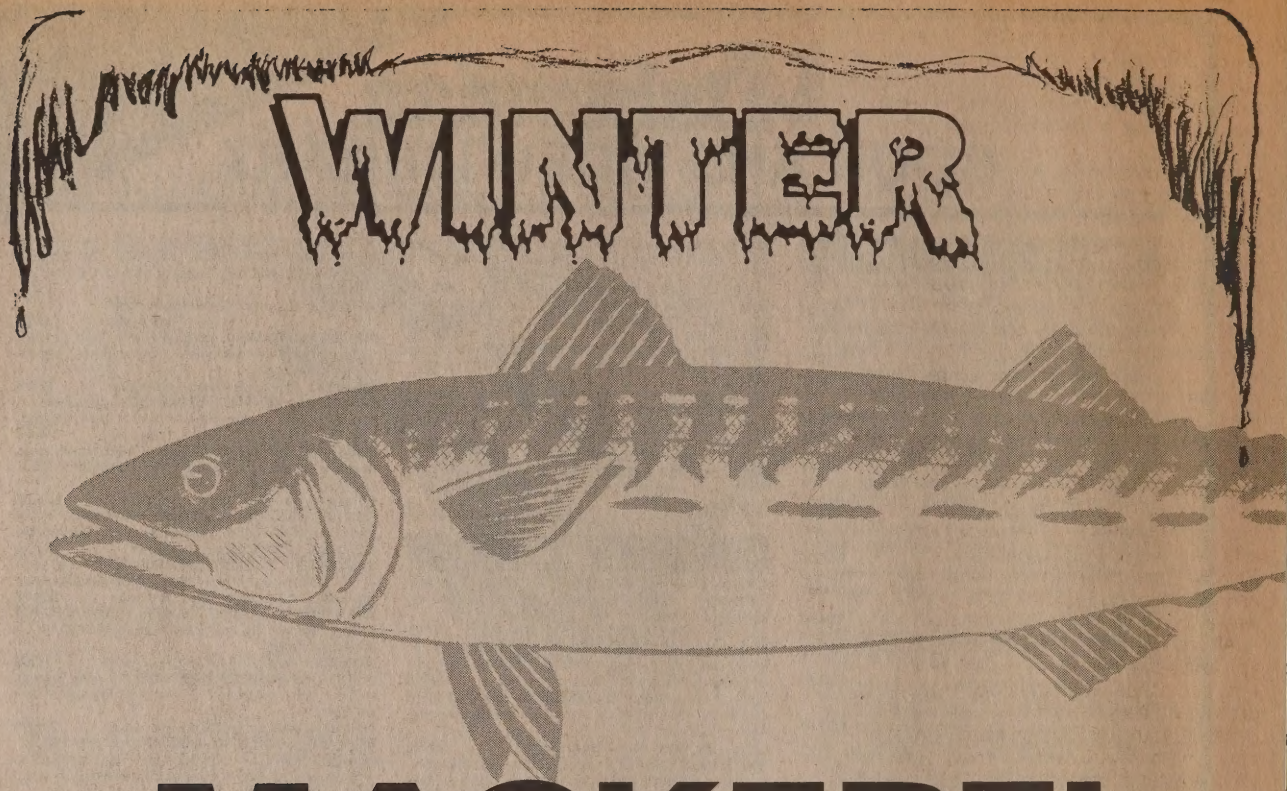

MACKEREL FISHING

By Matt Ahern

Most sinker bouncers go mackerel fishing only during springtime. I know many of us are unaware that winter mackerel fishing is a good bet when those hoped-for cod put on the finicky act.

That's saying a lot, I know, for who among us can say with certainty that the fishing gods will smile our way, especially when we undertake a catch-as-catch-can type of fishing.

Is the possibility of getting a little mackerel action this winter little more than a hope and a prayer? This was the interesting question bandied about by a group of Hampton Bay anglers one dreary, drizzly morning in the old A&P parking lot. The replies ranged from "Good" to "Not good" to "You guys are nuts!"

I couldn't blame the Doubting Thomases, for I could see their point. But whether the marjoity of those pessimistic replies was due to lack of publicity, or because most fishermen have their sights set on cod at this time and couldn't care less, I don't know. But I suspect this may be so.

Doubting Thomases aside, the chances right now of getting winter mackerel action are fair to good. Just how good is determined strictly by water temperature. There have been seasons when mackerel lingered throughout the entire winter, (especially when codfishing gets off to a late start), and other times when a two week spell of fantastic action was it. During some winters, mackerel barely show at all, spending only two or three days in springtime haunts and then suddenly vanishing to deeper (and warmer) offshore areas.

Such flighty behavior is not unknown in spring -- mackerel aren't called "feast or famine" fish without good reason. Lest I lead you astray and fill your head with expectations of wonderous fishing this winter, let me say that the spring run is always more reliable. But when winter mackerel are available, you'll find them just as scrappy and full of zip as their siblings caught last spring. This isn't surprising, for they have been feeding heavily all summer in the deep waters of Maine and Nova Scotia, replenishing strength depleted by spring spawning and building much-needed stamina for the return trek southward.

The advantages of winter mackerel fishing are many. One of course is that competition is nil. This means you won't have the entire fleet zipping around spooking the fish. And mackerel are spooky. And heck, if the fish refuse to cooperate, you can always revert to bottom fishing for cod, ling, or whiting. In spring you don't have this choice. You then either get mackerel, or return home without much to show for your efforts, hope, and expectations.

It is seldom that codfishing party boats will fish mackerel on slow days, although I've been out with some skippers who took a gamble and carried a can or two of ground mossbunker chum in case things turned sour.

I recall one December day on the Southeast Grounds when cod were few and far between. A can of mossbunker chum was mixed with sea water to the consistency of thin soup and laddled overboard by the mate. The fellows flashing four-ounce diamond jigs filled their sacks with fat two pound mackerel. And those fellows lacking a diamond jig weren't out of the action by a long shot. They simply removed their heavy cod riggings, added a four ounce sinker, wrapped the shanks of several 3/0 Sproat hooks with aluminum foil and made on-the-spot mackerel trees. Worked fine.

To show how prepared that skipper

was, plus proper concern that his passengers had the best possible chance to go home with fish, let me say that the aluminum foil and supply of 3/0 Sproats were carried along with the chum. Now, that's what I call a fish-thinking skipper!

Unless you are a true mackerel fan, I would recommend you spend the first few hours bottom fishing. Keep the mackerel potential possibility as a backstop. If fishing slows, you can always remove the terminal tackle and put on a diamond jig and do a little experimenting. I've done this on occasion and have been pleasantly surprised with a cod when none were available on bait. Which only goes to show that because we aren't catching anything at the moment, it doesn't mean there are no fish down there.

Diamond jig fishing often produces unexpected catches. One December morning some years ago, while codfishing on The Farms, I caught nine humpback sea bass with this method. And on one New Year's Day, while fishing the 17-Fathom Bank off Seabright, New Jersey, I nailed a 27 pound pollock. Now, that's the way to start off a fishing year!

All you need is that one mackerel to let you know the fish are available, for it is a rare occurance when only one mackerel is caught. That's the time to break out the chum. If you're fishing privately, mix the chum with sea water to that recommended thin consistency, and ladle overboard sparingly. If you pile it to them at this time of year, there's a good chance you'll draw dogfish. (Should that happen, forget mackerel fishing in that area). When chumming is properly done, you'll soon have mackerel rising from the depths. I've found that when winter mackerel fishing, the best depth to begin jigging is about 30 feet. (In spring, it's about 20 feet -- but don't ask me why. I haven't the foggiest idea).

If you lack a mackerel tree, and you have no aluminum foil, you can easily make one. Simply use several unsnelled tinned or cadium-plated O'Shaunessey hooks, 3/0 in size. Actually, any tinned or cadium-plated hook in this size will work for this fishing, but I lean to the O'Shaunessey pattern for no particular reason of which I am aware. Force of habit, I guess.

Use a four-foot piece of monofilament and stagger a series of three-inch, double-overhand loops about six inches along its length. I would say three loops, plus the diamond jig, it is best to use an Improved Clinch Knot.

Attach each hook to the leader by running the overhand loop through the hook eye, then over the hook, and draw up snug against the eye and shank. The loops act as snells and are stiff enough to hold the baitless hooks out and away from the main line.

That's all you need. Mackerel have no qualms about striking bare hooks -- as long as they are bright. If it is necessary to use bronzed or other dull finish hooks, remember the aluminum foil trick. Some fellows also use a narrow strip of mackerel on each hook as an added enticer.

It is my belief that winter mackerel fishing is more than just a hope and a prayer. But the only way to find out is to give it a try. Heck -- you've got nothing to lose and everything to gain.

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TRAVEL LOG

Focus On Florida:

Cuda-Ville

By Gary Diamond

Palm trees, gin clear water and snow white sand, that's why most people travel to the Florida Keys during the winter months. But, when you're an avid fisherman battling a severe case of "cabin fever" and don't particularly enjoy shoveling snow, Key West looks like a far away island of paradise.

Located at the end of U.S. Route 1, Key West is a bustling community that offers the ardent saltwater fisherman just everything he or she ever dreamed of. Tarpon abound in the nearby harbor, permit lurk along the edges of the flats, cobia of 75 pound search the bottoms of the channels for baitfish while sailfish, tuna and marlin are stalked just outside the reef. Bottom fishing inside the reef is beyond anything you can imagine with huge schools of snapper, yellowtail and grouper nearly everywhere you drop a live shrimp. Yet, one of the most exciting gamefish in the Key West region is often overlooked—Barracuda.

Located just 20 miles west of Key West is the only atoll in the continental United States. The Marquesses Keys are a small group of islands linked together with dense mangrove jungles. The inner area, often called The Bathtub by locals, is comprised of extremely shallow water laced with deep cuts traversing from north to south. It's here where the largest Barracuda in South Florida are found during the winter months. It's believed the cuda come here to spawn, but locals claim they're here to feed on houndfish and needlefish which are abundant in the dense turtle grass this time of year. As the tide rises, the forage fish begin to migrate through the troughs where cuda by the thousands wait in ambush.

The average sized cuda in Florida is usually under 15 pounds. However, the toothsome creatures lurking in the shallows of the Marquesses range from 18 to 50 pounds with the average fish tipping the scales at nearly 25 pounds. Because the water is gin clear, you'll see these silver speedsters at great distances while slowly drifiting through the turtle grass flats. It's not unusual to observe 20 or more fish congregated in just one small sand hole. The sand holes are made by huge rays burying themselves in the bottom which uproots the grass. When an unwary houndfish gets close, the cuda turns on the afterburners and the water explodes as if a grenade detonated. Within seconds, it's prey is cut in half by the razor sharp teeth and the cuda quietly returns to the sand hole to await another easy meal.

There are two basic methods to catch the giant Barracuda of the Marquesses. Florescent yellow tube lures armed with a 4/0 trebble hook and weighted with a half ounce egg sinker are likely the most productive lure you could select. The tube imitates the hound and needle fish which are the species favorite food. The secret to success is not to put a bend on the lure. The wiggling action causes the cuda to completely ignore your offerings. Instead, make sure the tube is perfectly straight to it zips through the shallows like a missile. This apparently aggravates the Barracuda into thinking a brazen baitfish believes it can zip through the area unscathed.

It's rare when a giant cuda takes a slow moving lure. Therefore, you'll need the highest gear ratio possible on your spinning reel in order to attain the necessary lure speeds. Slow moving lures are completely ignored. Any reel with a ratio of less than 5.5 to 1 is too slow for this type of fishing. Because the water is extremely clear, the fish can be somewhat spooky if approached too closely. Long casts are a must, thus dictating the use of

Barracuda of this size are considered average during the winter months at the Marquesses.

a hefty rod of seven or more feet in length. Premium quality monofilament of 12 to 14 pound test, 12 inch steel leaders, lots of tube lures and a few large surface plugs round out the selection of tackle.

When the tide begin to fall, the cuda go on a feeding binge like you'll never experience anywhere in the world. Thousands of these giants will suddenly appear along the edges of the troughs to blast an unsuspecting needlefish. If you're a fly fishing buff, this is the best time to test your fishing skills and durability of your tackle. Six to 10 inch streamer fly's contructed from chartreuse nylon hair and armed with a 4/0 stainless hook produce explosive strikes. Again, your offering must be zipped through the shallows or it will go unnoticed. Thirty pounds of cuda screaming across the flats and leaping high above the water causes most fly fishermen to stop breathing for extended periods.

Although a fishing trip of this nature may seem out of the financial means of the average fisherman, you'll find the cost may be lower than a long weekend to the local seashore resorts close to home. Motels range from $50 to $125 per night and food is relative inexpensive depending on how lavishly you dine. The secret to keeping your expenses low is to trailer your own boat and take a few fishing partners along to share the cost. A $100 per night motel bill split four ways works out to $25 per person—not bad for a resort town during the height of the tourist season. Other expenses such as gasoline. tolls and launch fees are also kept at a minimum when they're split four ways.

Naturally, by trailering your own boat, you'll save lots of money in guide fees. But, if you don't own a boat, you have no choice but to hire a local flats guide. Charges for a full day trip range from $100 to 250 per day, depending on the species of fish you're after. Again, the cost is far less than you might expect for this type of fishing. You'll find several flats guides at Garrison Bigh Fishing Center on U.S. Route 1 and most of them know the flats like the back of their hand. Larger charter boats for offshore fishing are also available here.

Although there are launch ramps nearly everywhere you look, the best ramp in the area is also located at Garrison Bight. Launching runs about $4 per day and weekly rates are available. The facilities can accommodate boats up to 25 feet and ample parking is provided for trailers at no extra charge.

The run from Key West to the Marquesses Keys takes about an hour. Most of the trip will be made through the back country behind a string of islands where the waters are completely protected from the prevailing winds. The only open expanse of water you'll encounter is the North West Channel and Boca Grande Channel. The North West Channel is about two miles wide and rarely gets rough. However, Boca Grande can be a real nightmare when the winds are gusting from the south and the tide ebbs. The channel is five miles wide and ranges in depth from 12 to 45 feet. At times, it seems if the entire Gulf of Mexico is running throgh the opening causing huge standing waves. Once you get back into the shallows, the waves are non existant even at wind speeds of 20 miles per hour.

Once you arrive at the Marquesses, slowly motor to the north end of the islands, kill the outboard and tilt the motor up. Allow the boat to drift parallel to the beach and begin by blind casting the edge of the sand holes and turtle grass. Usually, on your first or second cast, you hook up with your first cuda. The fish will blast your lure at speeds approaching 45 miles per hour, leap from the water and likely throw the hook. If you're lucky, the hook will stay in place and you'll spend the next 15 minutes wondering who is winning the battle. Once the fish is exhasted, slide a gaff under it's jaw and lift it completely out of the water. Then with a long set of hook disgorgers, carefully remove the hook and release the fish. Barracuda are highly toxic and under no circumstances should you attempt to eat these fish.

If the winds come up and the flats surrounding the Marquesses get roily, head for The Bathtub where six inch waves are considered a rough day on the water. There are three entrances to the inner area of the atoll. Two are located at the south end of the island chain and the main entrance is situated on the northwest corner. The channels are not well marked, but the azure colored water is deep enough for boats of any size. You can readily negotiate the deep channels and cast your lures to the adjacent flats. If your boat tends to drift out of the channel, motor slowly back to the deep water and quietly lower the anchor. As the tide recedes, barracuda, permit, tarpon and sharks will move off the flats to the deeper channels.

Once the tide slacks, head out to Congrove Light, just four miles southeast of the Marquesses. You'll once again encounter huge barracuda and they'll be there by the thousands. The water here is about 25 feet deep, but the fishig is nearly as exciting here as it is on the flats. The main difference is the fish don't jump as frequently or high. In addition to the cuda, you'll find good numbers of grouper, yellowtail and even a few huge bull dolphin.

The Florida Keys offer the visiting angler more fishing opportunities than you can imagine. If a severe case cabin fever has you in it's ugly grasp, head south to Key West and hook up with Florida's ugh fish. One trip and you're addicted.

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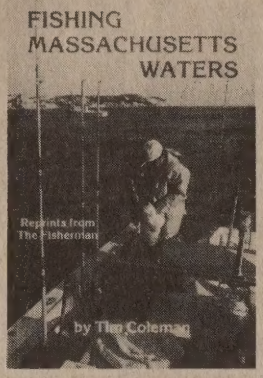

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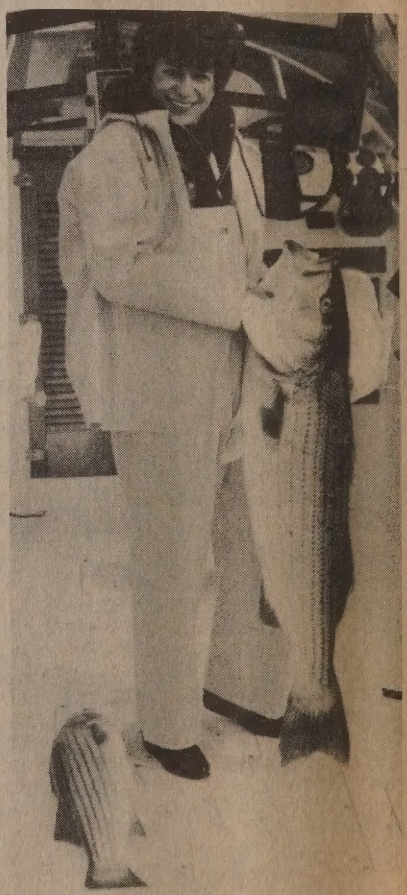
EAST END REPORT

By Mrs. Lorry Mangan

We sound like a broken record, but once again severe winds on the weekend curtailed fishing trips. On Sunday, during gale force winds, all boats remained in port. Between windstorms, blackfishing remained excellent; cod catches improved late last week. Not much action on flounder due to poor fishing conditions in the bay.

MONTAUK

We received a call from Dave Roys who fished on the **Marlin V** last Sunday (Nov. 27). Dave related that he caught 20 blackfish, all in the 5 to 10 pound range,



Carol Martin poses with the 37 pound striper she decked at Montauk while trolling with her husband, Ed. The trophy cow is being mounted by Fish Unlimited Taxidermy.

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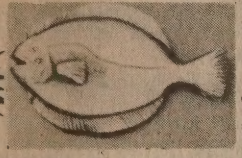

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and actually was arm weary from the constant action in deep water. He also saw some cod come over the rails. According to Capt. Jake, a good catch of cod and blackfish was had last Friday, fishing on wrecks south of the Cartwrights. Two anglers, Mike and Red, returned to Centereach with 25 cod in their cooler. A total of almost 200 cod and blacks were caught by a dozen fishermen. Cod wre all school sized, biggest about 15 pounds. On Saturday, bad seas caused the **Marlin V** to return to the dock early. Weather permitting, cod/blackfish trips are scheduled every Friday, Saturday and Sunday.

Last Thursday, Capt. Mike Barnett of the **Codfather II** tried his luck on the **Vivienne** along with his crew, Dennis and Tom. They had a great day, landing 76 blackfish with 5 small cod. Many large blacks were caught, with the largest 10¾ lbs. Fishing with Fred Sica on Saturday, 42 blacks and 7 cod were put into the fish box before bad seas necessitated curtailment of the trip. While the average size black was in the 5 pound range, the largest weighed 11½ lbs. Capt. DeMaio feels that this good fishing will continue; call for charter information.

Not much activity at **Gone Fishing Marina** said Capt. Tom, since all charter boats are now out of the water and private boats have had poor sailing conditions. However, on Saturday, TJ was able to spend a few hours at Cartwrights with Richie Reyner. The pair connected with 20 blackfish before bad sea conditions forced their early return. The marina will remain open all winter and is well stocked for holiday shopping. The launch ramp will also be open all winter, but it is best to call ahead before coming.

Capt. Ron Grandinetti of the **Julie III** fished on Roger Brevit's "Obsession" with a charter group led by George Acosta. Although the group landed 30 blackfish in the 5 to 10 pound range, with 5 small cod, high winds and bad seas put an early end to the trip. Some small mackerel were noted at Cartwrights as well.

Viking blackfish trips continue excellent, and will continue Fridays through Mondays through December and may be extended to January, said Capt. Steven Forsberg. On Friday 29 anglers caught 320 blackfish. Saturday 29 fishermen captured 275 very large fish, with 7 fish over 11 pounds brought to the stern for the pool. The pool was settled with a 11½ lb. bulldog. The boat did not sail on Sunday because of gale winds. Beginning this Friday, December 9th, the **Star** will fish local Montauk and Block Island waters for cod, departing at 5 a.m. the **Starship** returned early from Georges

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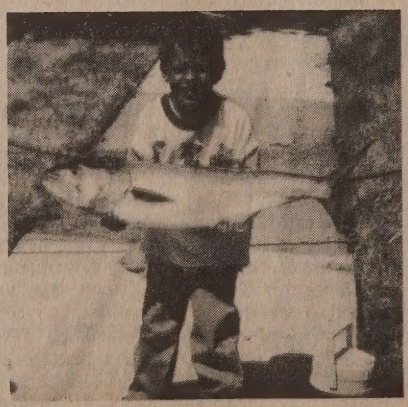

Jesse Lubin displays the 10 lb. blue he caught on his uncle Phil's boat in Cold Spring Harbor on 9/15/88.

Banks on Sunday because of heavy seas. Capt. Paul Forsberg reported excellent fishing on the first day (Saturday) with big cod caught during the day and some anchored Saturday night. A few pollock were caught early Sunday. Lou "Hooks" Pow of Manhasset caught a total of 28 cod, including the 61 lb. pool winner. Frank of the Bronx managed to take second pool with a 60 lber., the largest of 20 in his coolers. Next Valley of the Giants trip is scheduled for December 26. Call for reservations.

A small charter group (2 men) on the **King Wayne** managed 20 cod and 18 blackfish on Saturday, quitting early due to bad sea conditions. Capt. King will begin open boat sailing on Saturdays and Sundays beginning this wekend. Reservations are necessary. Call him at (516) 668-5843 for further information. There are openings for cod and blackfish charters for weekdays during December.

Capt. Michael Potts sailed a couple of trips on **Bluefin IV** the past week ending his season with terrific blackfish action. Three anglers managed 100 blackfish on Tuesday, 4 men caught 200 on Wednesday. Capt. Potts said that while most of the blackfish weighed in the 5 to 6 lb. range, three hit the 11 and 12 lb. mark on the scale. A half dozen cod, under 15 lbs., were caught on clams after all the crab bait was used up. Capt. Potts is now scheduling spring charters, beginning in Mid March. He sends all his customers and friends happy holiday greetings.

SOUTH FORK

Not too much to report from the South Fork this week due to the winds. A few hardy souls did report a few flounder however.

The store at **Bayview Marine & Tackle** will remain open until Christmas Eve, however rental boats have been put away for the season. Frozen bait is available for those wishing to try their luck from local piers and bridges. Susan stated that winter store hours are Monday through Friday from 9 to 5; Saturday from 9 to 5:30, and Sunday from 9 to 4.

Thom Speckenback knew some anglers were headed out to the Bridge Wreck late last week, but they neglected to report their catch back to **Speck's Bait and Tackle**. Thom did however speak to an angler who managed to locate a 16 inch flounder fishing from the side of the Shinnecock Canal. The angler spoke of a dozen smaller flatties as well. Thom has fresh clams and night crawlers in stock for this weekend's flounder fishing. He still has green crabs for blackfishing.

Shinnecock Fishing Station is now closed for the season. Jimmy and Tommy extend best wishes to all their customers for a happy holiday season. They plan to re-open on St. Patrick's Day. While fishing efforts the past week were kept down by persistent winds, some anglers did manage to locate big flatties in Tianna Bay. Heavy mussel chum, hooks baited with fresh mussel attracted a few 2½ to 3 lb. flounder.

Rich Parisen didn't know of anyone who fished during the past week, since

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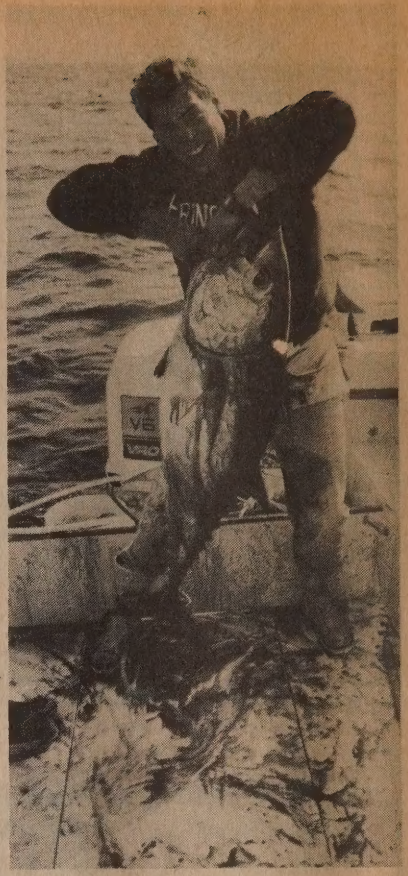
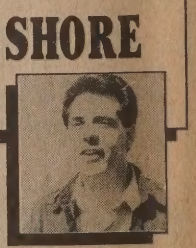


Ken Eipel, Jr. decked this husky 60 lb. bluefin tuna twenty miles south of Montauk aboard his dad's "Sea Joy."

most plans were canceled because of the stiff winds. **Altenkirch & Son, Inc.** has plenty of gifts for all fishermen on your list, ranging from custom surf rods, offshore lures and inexpensive stocking stuffers. Should winds abate, fresh worms are available for flounder fishing.

SOUTH SHORE REPORT



By Fred Golofaro

The fishing season is drawing to a fast close for many anglers while a handful continue to indulge in some codfishing and late season floundering. Another heavy dose of wind this weekend curtailed the efforts of even the most diehard anglers though some managed to salvage part of Saturday on the cod grounds.

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Glen and Harry Behr with the 304 lb. mako shark they boated 15 miles south of Shinnecock Inlet back on October 2. Subscriber photo.

regular contacts in this area but it is a safe bet that not much happened on the weekend as a result of all the wind. Second hand reports of some nice size flatties taken in the bay around mid-week but no specifics. At this point in the season, its best to call ahead to fishing stations to check on the availability of boats or launch ramps.

GREAT SOUTH BAY/ FIRE ISLAND INLET

At **J&J Tackle** in Patchogue, Paul Graniello reported lots of wind and almost no fishing activity on the weekend. The few guys that did stop for bait never reported back on their efforts. Paul did know that a few of his customers scored with some flatties from the shore in Eastport and Moriches during the week.

Dave Canale at **J&R Sports Centers** in Oakdale had nothing in the way of reports aside from plenty of wind. He reminded that there is still some time left to order a custom crafted rod for Christmas.

Not much fishing going on these days according to Noel Kappauf at **Captree Bait & Tackle**. The docks are quiet with the acception of codfish fans. Friday was a pretty good day with the cod while Saturday was a little tougher due to the wind. Sunday was blown out all together. The Jones Beach Piers produced some flounder and quite a few herring this past week. If your looking for Christmas gift ideas, most of the shops inventory is reduced from 10 to 40% off for Christmas. Also a video of the 1988 Surf Bluefish Derby is available over the counter at a special Christmas price of $19.99 plus tax. It regularly sells for $24.95. Noel added that the shop will remain open from 10 to 4 seven days a week, weather permitting. If there's any doubt call 422-1177.

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Captain George Tweedy of the open boat **Captain Scotty 3** reported a big increase in the number of cod being taken on offshore wrecks. Most days see from 50 to 75 cod coming aboard. Most of the fish range from 4 to 8 pounds with a few 12 to 15 pounders mixed in. Still alot of dogfish as well as a few ling and blackfish. A few of the pools have been settled by cod in the 25 to 35 pound class.

Captain Gordon Roman of the open boat **Captree Queen** reported pretty good cod action on days they were able to sail. Catches ranged from 40 to 70 fish in the 8 to 12 pound range. On Saturday, 45 cod came over the rail despite the difficult conditions created by strong winds and rough seas. Sunday was lost to the wind. On Saturdays trip, ten year old Michelle Cormier topped all the regulars with a 15 pound pool fish.

Over at **Augies Bait & Tackle** in Babylon, Lou Hooks noted that flounder fishing seems to have improved with the cold weather but very few anglers are around to take advantage of it. Most have pulled their boats for the season. Codfishing also appears to be pretty good on those few days when the wind doesn't blow. Lou added that the shop is well supplied with both blood and sandworms. A reminder too that the striped bass season closed last Thursday, December 1st. Fish can still be caught land released but it is illegal to have in your possession striped bass of any size.

At **Charlies Bait & Tackle** in Lindenhurst, Penny Schaefer spoke of a real

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quiet week with lots of wind and virtually no fishing taking place. The only news she heard concerned some flounder taken in the State Channel during the week.

Across the street at **Lindenhurst Bait & Tackle**, Mike Andreani said it was like a morgue this week with no one getting back with any first hand fishing reports. A few customers that fished aboard open boats this week reported taking some cod. Nothing on white perch in the local creeks this week though it had been good prior to this week. A reminder that the shop is open from 9 a.m. to 5 p.m. and 7 p.m. on Fridays for those looking to do some fishing oriented Christmas shopping.

Chester Shew at **Z Crab Tackle** in Copiague, said that most people have called it quits for the season. A few reports of flounder at Squaw Island and rumors of some flatties being taken from the Wantagh Piers.

From **Bob's Bait & Tackle** in Amity Harbor, Bob Rose said there are still some flounder around but most guys have pulled their boats and called it quits. Bob reminded that the shop is well stocked with Christmas gift ideas.

WEST END REPORT

By Stu Miller

With a week of cooling down water and of course, a good share of strong winds, the floundering inside was fair to good as was the offshore blackfishing at 17. Boats that fished cod on the wrecks generally did well with virtually all decent size fish up into the 30 lb. class. Scattered catches of ling and whiting were also had.

WEST END BAYS/ JONES INLET

Mike at **Causeway Tackle in Wantagh** told of a customer Saturday coming back with 25 flounder to 2 lbs., 14 oz. taken on bloods in the 4 corners area. Herring in the state channel off the piers along with a few flounder and some scattered cod at Cholera.

We learn from John at **Garan's Tackle in Merrick** that several of his customers have been picking away at flounder throughout Merrick Bay with best areas being Rowboat Alley and the S turn. John

Andy Anderson of West Babylon stand alongside the trophy striper he took on the Cedar Bar on 11/6/88. The big cow weighed 49.2 pounds at Captree Bait & Tackle.

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also said he heard of some teen size cod being caught at 17 fathom.

Sailing out of Freeport, the **Starstream II** has been enjoying consistently good cod fishing, working wrecks, rocks and high pieces. Catches have been averaging 50 to 60 cod a day with fish going 10 to 15 lbs. on average, with 35 plus lbers taking the pools.

A call from the **Capt. Lou Fleet** advised that although the full day boat has called it quites for the season, the half day boat will still be flounder fishing until Christmas. Skipper Mike Danon said catches have been good all week with the full day boat getting high hooks in the 30's, fish to 2 lbs. with the half day boat doing very good on the afternoon tides this week, with high hooks from the high teens to the twenties. Mike says don't forget about the big party on the boat Saturday night at 8 p.m. for all his customers.

We learn from the charter boat **Persuader** skipper Jim Krug that on Saturday a 2 angler charter had roughly 60 blackfish up to 10 lbs., 2 ozs. Judy Huebner was high hook and John Varricchio took the pool. Action was on green crab at 17 Fathoms. Jim will be sailing all winter and can be reached at 437-9123.

Capt. Jim Lanzeretta of the **Super Spray II** tells of Wednesday's catch of 20 cod for John and Tony from **Mike's Tackle Shop in Sheepshed Bay**. On Friday, it was 17 cod for Dave Brown while Walter Jerome was quite satisfied with 14 cod including a 43 lb. pool winner. Saturday's customers had over 100 cod. Action has been less than an hour from the dock working local wrecks and rocks.

We hear from Capt. Mike Barnett of the charter boat **Cod Father II** about Saturday's 3 man charter for the Dave Neberg group hoisting 28 cod to 25 lbs. in 2 hours at which time the trip had to be cut short due to strong gusty winds. Mike says this catch was on a couple of his pet wrecks. He will be sailing all winter weather permitting weekday's and weekend's and Mike also says that he has many choice open dates available.

Over in Point Lookout, Capt. Al Lindroth of the **Capt. Al** called this weeks codfishing good to very good with catches averaging 60 to 120 cod a day. Wednesday saw Bill Shephard of New Rochelle with a 50 lber. while Walt Rutkowski of Regal Park had a 25 and a 30 lber Wednesday. It was 18 cod on another trip for Joe Golden of Massapequa. On that day 12 fares had over 100 cod. Tuesday was too rough to present a bait and Sunday was blown out. The skipper says the water is clean and clear, the fish are close and are hungry, so come on down.

We hear from the **Night Hawk** that 3 fares on Friday had 75 blacks 2 to 6 lbs. fishing locally. On Saturday's trip 8 fares boated over 250 blacks 2 to 9 lbs., all on green crabs and clam. Action has been a half hour out of the inlet (or outlet, depending on which way the tides running). Blackfishing is super now, said the skipper.

Tom at **Scotty's Fishing Station** which is remaining open all winter, weather permitting, with fuel and bait for those chasing cod told of some large flounders being picked by those putting in the time off the golf course and at poles 17 and 19.

NEW YORK BIGHT

Over in Sheepshead Bay, the **Big Holiday** had 75 cod Thursday up to 38 lbs. for 6 anglers and continues its 4 a.m. sailing schedule on Saturday's, Sunday's and holiday's. The skipper called the codfishing very good.

A call from Capt. Larry of the charter boat **White Water II** told about the good blackfishing at 17 on the days he got out this week, plus a by-catch of some ling and cod. He said you really had to work around the wind this past week.

We hear from the **Betty W IV** that anglers bagged up with ling Saturday, an excellent table fish. Mackerel are expected to be in strong by the weekend, said skipper, Al Coley, and there should be no difficulty loading up.

Capt. Butch of the **Zepher V** said this past week saw super blackfishing at 17 fathoms along with a good catch of ling, plus a few sea bass and pollock. On

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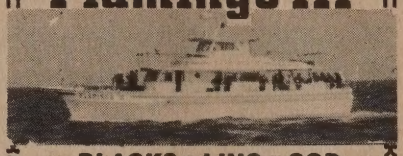

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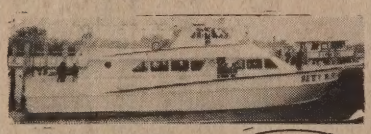

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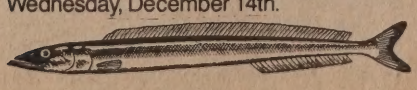
Eight year old Jason Bereswill caught this 10¾ lb. blue in Merrick Bay on a live bunker. Jason hooked and landed the fish unassisted back on 8/28. Subscriber photo.

Saturday there were 21 blacks caught over 10 lbs. and many over 5 lbs. all on clam or crab baits. Butch says there's good fishing now, whenever there are decent breaks in the water.

Capt. Walt of the **Flamingo III** said that Saturday's trip saw good catches of blacks and ling all day long up to 40 to 50 fish per man, working new grounds and 17 Fathoms. Fish were mixed.

Capt. Tom of the **Elsie K. Princess** told of excellent blackfishing along with a few cod at 17. He plans 3 special cod wreck trips and will be sailing at 6 a.m., December 12, 19, and 26.

Capt. Mark of the **Friendship II** said he was virtually the only boat out fishing 17 Fathoms in Sunday's wicked winds and that they had a very good catch of blackfish. Calling via the marine operator Monday morning, Mark said customers were into blacks and cod already. The boat will be running a special offshore cod and blackfish trip, sailing 3 a.m., Wednesday, December 14th.



NORTH SHORE REPORT

By Marty Garrell

Plenty of fish and very few anglers seemed to be the word from most areas. Of course, you had to pick your days, but bass for catch-and-release, winter flounder and tautog were available for those who persevered and did their homework.

WESTERN SOUND

Pete Anderson of the **North Star** from City Island is looking forward to a vacation in the Florida Keys at the end of January. He told us that the fall tautog season was only fair and that the flounder action seemed better in the fall than it did in the spring. Carl Giangrande on the **Reliable** out of Flushing Bay called the tautog action terrible at the very end of the season, probably because of the "freaky weather". He felt that the blackfish angling was actually better in the spring. He's planning a whole new schedule next season, beginning in March, possibly sailing 7 days a week, assuming that he gets adequate help. Also, he plans a few more nights a week on summer and fall bluefish.

NORTH SHORE MID-ISLAND

One of the largest tautog of the season for this sector was weighed last Sunday at **Four Winds** in **Huntington Station**,

High Tide Tables

How to use tide tables: To compute the high tide for the area you wish to fish, simply find the closest area on the conversion table. Add or subtract the hours and minutes as indicated from that area station above. Example: Shinnecock Inlet . . . −0 50 is listed under "On SANDY HOOK." −0 50 means you subtract 50 minutes from the times given for the SANDY HOOK STATION for the day you are going fishing. This is the approximate time for the high tide in the area. For low tide, add 6½ hours to this figure.

DAY	SANDY HOOK AM	SANDY HOOK PM	BREAKWATER HARBOR AM	BREAKWATER HARBOR PM	NEW YORK AM	NEW YORK PM	NEW LONDON AM	NEW LONDON PM	WILLETS POINT AM	WILLETS POINT PM	BRIDGE-PORT AM	BRIDGE-PORT PM	NEWPORT AM	NEWPORT PM	DATE
THURS.	6:45	7:05	7:30	7:50	7:20	7:45	8:05	8:40	9:55	10:35	10:00	10:35	6:40	7:05	12/8
FRI.	7:25	7:50	8:10	8:30	7:55	8:25	8:45	9:25	10:35	11:15	10:45	11:20	7:25	7:45	12/9
SAT.	8:10	8:35	8:55	9:15	8:35	9:10	9:25	10:10	11:15	11:55	11:25	—	8:10	8:30	12/10
SUN.	8:55	9:20	9:40	10:05	9:25	10:05	10:10	10:55	—	12:05	12:05	12:15	8:55	9:20	12/11
MON.	9:40	10:15	10:30	10:55	10:15	11:00	11:00	11:50	12:45	12:50	12:50	1:00	9:40	10:10	12/12
TUES.	10:35	11:10	11:20	11:50	11:10	—	11:55	—	1:30	1:45	1:40	1:55	10:35	11:05	12/13
WED.	11:30	—	12:15	—	12:05	12:10	12:45	12:55	2:20	2:40	2:35	2:50	11:30	—	12/14
THURS.	12:10	12:30	12:50	1:10	12:55	1:05	1:45	2:00	3:25	3:45	3:30	3:50	12:05	12:25	12/15

On Sandy Hook

STATEN ISLAND	+0 27
ATLANTIC HIGHLANDS	−0 01
Red Bank, Navesink River	+1 48
Long Branch	−0 34
SHARK RIVER INLET	−0 18
Shark River Basin	+0 27
MANASQUAN INLET	−0 12
Seaside Park	−0 33
Mantoloking bridge	+5 34
TOMS RIVER	+4 37
Waretown	+2 33
BARNEGAT LIGHT	−0 20
Manahawkin Bridge	+2 33
Beach Haven	+1 47
LITTLE EGG INLET	−0 01
Seven Islands	+0 12
Graveling Point	+1 05
Mullica River	+1 55
Grassy Bay	+1 08
ABSECON INLET	+0 14
Atlantic City Pier	−0 26
Great Egg Harbor Inlet	+0 12
GREAT EGG HARBOR	+0 44
CORSON INLET	+0 09
TOWNSENDS INLET	+0 06
HEREFORD INLET	+0 02
Grassy Sound Bridge	+0 45
Cape May Harbor	−0 02
Rehobeth Beach	−0 07
INDIAN RIVER INLET	+0 41
SHINNECOCK INLET	−0 50
Shinnecock Bay	+1 25
East Quogue	+2 45
Shinnecock Canal	+1 18
Indian Reservation	+3 05
MORICHES INLET	−0 56
Smith's Point	+3 28
Hart's Cove	+1 30
Pontunk Point	+3 35
Mastic Beach	+3 28
FIRE ISLAND INLET	−0 38
Democrat Point	−0 38
Coast Guard Station	−0 19
Fire Island Light	+0 47
GREAT SOUTH BAY	
Sayville (Brown Creek)	+3 39
Heckscher State Park	+3 20
Bay Shore	+2 23
Babylon	+2 12
Amityville	+2 21
JONES INLET	−0 19
Zachs Bay	+1 25
Seaford Harbor	+2 05
Freeport Creek	+0 34
E. ROCKAWAY INLET	−0 06
Long Beach Bridge	+0 19
ROCKAWAY INLET	0 00
Beach Channel Bridge	+0 38
J.F.K. Airport	+0 26

On Bridgeport

Lloyd Point	+0 08
Cold Spring Harbor	+0 08
Bayville Bridge	+0 13
Eatons Neck Point	+0 03
Northport Bay	+0 03
Norwalk Islands	+0 10
Smithtown Bay	+0 08
Cranes Neck Point	+0 05
Port Jefferson Hbr. entrance	+0 03
New Haven Harbor	+0 08
Mount Sinai Harbor	+0 05
Herod Point	−0 07
Mattituck Inlet	+0 05
Horton Point	−0 20
Truman Beach	−0 42
Falkner Island	−0 13
Sachem Head	−0 10
Branford Harbor	−0 07
New Haven Harbor entrance	−0 08
Milford Harbor	−0 07
Stratford, Housatonic River	+0 27
Shelton, Housatonic River	+1 36
Black Rock Harbor entrance	−0 03
Saugatuck River entrance	−0 01
South Norwalk	+0 10
Greens Ledge	−0 01
Stamford	+0 04
Cos Cob Harbor	+0 06
Greenwich	+0 02

On New London

Orient	+0 36
Little Gull Is. (Race)	+0 12
Greenport	+1 04
Southold	+1 43
New Suffolk	+2 26
South Jamesport	+2 32
Shinnecock Canal	+2 33
Noyack Bay	+2 05
Sag Harbor	+0 59
Three Mi. Hbr., Gardiners Bay	+0 21
Promised Land, Napeague Bay	−0 14
Montauk Inlet	−0 25
Montauk Point, north side	−1 13
Niantic	+1 20
Stonington, Fishers Is. Sound	−0 33
Noank, Mystic River ent.	−0 23
THAMES RIVER	
Smith Cove entrance	−0 01
Norwich	+0 12
CONNECTICUT RIVER	
Saybrook Jetty	+1 10
Lyme, highway bridge	+1 24
Essex	+1 38
East Haddam	+2 41
Higganum Creek	+2 54

On Willets Point

Little Neck Bay	−0 10
Execution Light	0 06
Manhasset Bay	−0 01
Hempstead Harbor	−0 11
City Island	−0 03
Rye Beach	−0 28
Port Chester	−0 09
Mamaroneck	−0 08
New Rochelle	−0 24
Davids Island	−0 02

On Breakwater Harbor

CAPE MAY POINT	−0 10
Miami Beach	+0 17
East Pt., Maurice River Cove	+0 53
Egg Island Point	+0 33
Cape Henlopen	−0 05
ROOSEVELT INLET	+0 09
Mispillion River entrance	+0 33

On New York

Jersey City	+0 07
George Washington Bridge	+0 46
Spuyten Duyvil, W/RR bridge	+0 58
Ossining	+1 53
Peekskill	+2 24
West Point	+3 16
Newburgh	+3 42

On Newport

Sakonnet	−1 10
Tiverton (between bridges)	+0 21
Beavertail Point	−0 02
Prudence Is., Sandy Point	+1 10
Bristol	+1 10
Warren	+0 21
Nayatt Point	+0 12
Pawtucket, Seekonk River	+0 21
East Greenwich	+0 16
Wickford	+0 12
Narragansett Pier	−0 08
Point Judith Hbr. of Refuge	−0 07
BLOCK ISLAND	
Great Salt Pond	+0 05
Block Island (Old Harbor)	−0 14
Watch Hill Point	+0 44

Sunrise/Sunset

DAY / DATE:	RISE:	SET:
THU. 12/8	7:15	4:28
FRI. 12/9	7:16	4:28
SAT. 12/10	7:17	4:28
SUN. 12/11	7:18	4:28
MON. 12/12	7:19	4:28
TUE. 12/13	7:20	4:29
WED. 12/14	7:21	4:29

Moonrise/Moonset

DAY / DATE:	RISE:	SET:
THU. 12/8	6:45AM	3:35PM
FRI. 12/9	7:50AM	4:30PM
SAT. 12/10	8:50AM	5:35PM
SUN. 12/11	9:40AM	6:45PM
MON. 12/12	10:20AM	8:00PM
TUE. 12/13	10:50AM	9:20PM
WED. 12/14	11:20AM	10:30PM

Moon Phases

NEW	1st Qtr.	FULL	Last Qtr.
12/9	12/16	12/23	12/31

The Original Knight SOLUNAR TABLES

The schedule of solunar periods below will help plan your day so that you will be fishing good areas during the time when the fish should be most active. The tables are not a guarantee you will catch fish, however.

The major periods begin at the time shown and last for 1½ to 2 hours thereafter, and are in the bold typeface. The minor periods are shorter in duration and the lighter typeface.

	AM Minor	AM Major	PM Minor	PM Major
THU.	3:35	9:40	3:50	10:10
FRI.	4:25	10:35	4:45	11:05
SAT.	5:20	11:40	5:50	—
SUN.	6:20	12:10	7:00	12:45
MON.	7:25	1:15	8:00	1:45
TUES.	8:25	2:15	8:55	2:40
WED.	9:20	3:10	9:50	3:35
THU.	10:10	4:00	10:45	4:30

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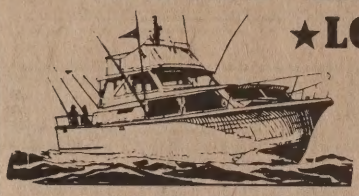

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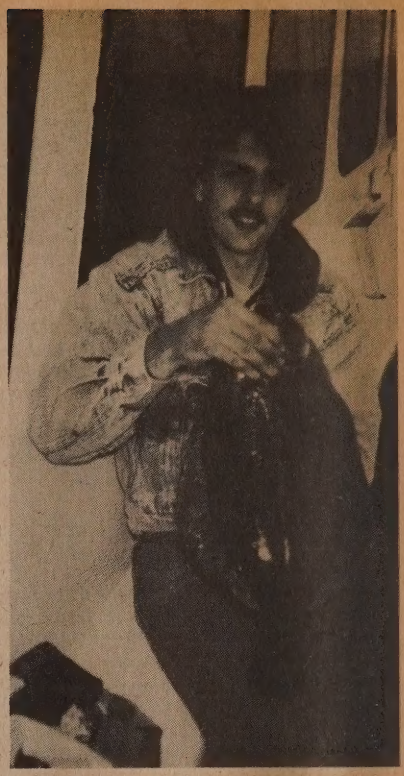

Talk about monster flounder! Seventeen year old Andre Tranchina decked this 5.10 lb. flattie during a special off-shore wreck trip aboard the Freeport based, Starstream II.

John Ambrosio's 10 lb., 13 oz. trophy. Other tautog specialists seemed to have packed it in for the season. Shop bait supply: few green crabs, lots of worms. Jerry Cedar at **Huntington Prop** said that flounder fans were still good for sales of a couple of dozen worms per morning, even on windy days. Flatties were abundant up in Lloyd's Harbor and Huntington Harbor. Cedar suggested fishing the Lloyd's Harbor opening, the old lighthouse area and the cable crossing with mussel and clam chum. Shop bait supply: worms about gone, 1/2 bushel of green crabs. Incidentally, Bob Cedar is now back home in time for the holidays after some surgical repairs.

Llene Fleischmann at **Greenlawn Sport Shop** said that a number of anglers were enjoying the fall herring run around the Mill Dam Bridge, fishing with tiny diamond jigs or mackerel teasers. There were plenty of flounder around the hot water area near Lilco-Northport. Bait supplies are good, i.e. worms and green crabs.

Tom Bowman at **Bowman's Sports** in **Northport** had not seen a fisherman in a week. Bowman himself is enjoying venison from a pair of buttonhorn bucks he shot, one from around Greenville, NY, the other near Redding, CT. Although **Lee's Sports** in **East Northport** is open for holiday shopping until 5 on Saturday and until 2 on Sunday, Lee Young told us that his bait supplies are

gone and that his customers have hauled their boats. He wishes everyone a fine holiday season.

Ralph Davenport at **Ralph's Fishing Station** in **Mount Sinai** told us that tautog were in 60 to 70 feet of water off Mount Sinai now with very few anglers trying for them. George Matthias is still pulling catches of nice flounder in the 1 to 1½ lb. class from the harbor, and he should be fishing through Christmas. Shop bait supply: frozen clam, crabs, no more worms.

Bill Crownover at the **Rocky Point Fishing Stop** told us that the shop will be moving down the block and across the street into a larger store just before Christmas. The shop may have worms and fozen bait all winter.

Richie Corcoran at **Warren's Tackle and Archery Center** said that the store is doing a lot of stocking stuffing for Christmas, with hours from 8 to 8 on Saturday, and from 8 to 2 on Sunday. He's running the store for Lorraine Gehr, and has been doing a super business in archery sales. One report came from an angler who scored on both flounder and tautog off Orient and supposedly saw some bass taken from Plum Gut as well. Shop bait supplies are good, with green crabs available until the end of December, plus sandworms and frozen clams. The store will try to stock tins of salted, shucked clams for hardies this month.

The Cash household was extremely busy on Sunday with Sharon expecting a new baby. According to Roy Cash's message, the **Port Jeff Ace** will be fishing at least through the coming weekend, with blackfish action holding very nicely. Poolwinners Saturday had the best fish of the week, a pair of 10¼ lbers. Bob Goetz and Clint Stockman were the lucky fares who tied for the honors with these trophy tautog.

A group fo diehards found a spot close to Mount Sinai Harbor that was sheltered from the wind to allow safe fishing on Saturday. Lorry Mangan, Matt Hazan, Julius Taubleb managed to catch a couple dozen nice blackfish using green crabs. The fish were fat and scrappy, biggest 8¼ lbs., although most were in the 3½ to 5 lb. range. The fish bit well throughout the afternoon, even with wind against tide causing a wide swing on anchor.

NORTH FORK

Both Larry Porter on the **Brand X** and John Rainis on the **Sea Star** thanked their customers and wished them a Happy New Year. Both boats concluded the season on Saturday with some of the finest tautog action of the year. Rainis found the fish on Wednesday in around 70 feet of water and kept catching even when the anchor slipped and the boat drifted for 50 feet or so. "You hit bottom and you had a fish... it was that easy," said Rainis, who wound up the season with a charter on Saturday. Porter told us that, even though he was blown out by 1 p.m. on Saturday, his fares had all the fish they needed. The season ended with fish a lot bigger than last year's. On Saturday,

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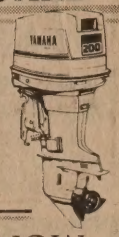
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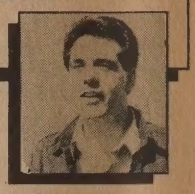
Dick Rickert had a huge 11¼ lber., Bill Murphy's biggest 'tog weighed 10½. Unfortunately, both boats were blown out by the vicious frontal system that passed through on Sunday.

Those who still have boats in the water probably ought to try pioneering for East End cod. Ling, tomcod and horned dogfish have been abundant lately, and there have been a few cod taken from lobster pots.

SURF REPORT

By Fred Golofaro



This week's column marks the final installment of the surf report for 1988. That fine run of big strippers that carried into the final days of November fizzled abruptly this past week. There were still schoolies to be caught and for those that haven't had enough, there should continue to some schoolies around for another week or so. And of course, there is always the Lilco outflow at Northport if your striper appetite has not been satiated. A reminder that the striper season closed back on December 1st but that does not eliminate the prospect of catch and release fishing.

Once again special thanks to those of you who have helped contribute to the Surf Report throughout the season. You've made my job easier and more enjoyable.

Johnny Kronuch at **Johnny's Tackle Shop** in Montauk was boarding up the windows when we called on Monday. He spoke of a real quiet week with just a couple of guys out making a final attempt. The last fish reported were taken back on Saturday night though he expects some schoolies will be picked by locals in the weeks ahead.

At **J&J Tackle** in Patchogue, Paul Graniello had no word on the South Shore surf adding that most guys packed it in after last weekend. A few customers continued to chase schoolies up on the North Shore during the week. Rich Monty had a couple of small stripers on red and white Bombers back around Tuesday or Wednesday.

From **Captree Bait & Tackle**, Noel Kappauf knew of some school bass taken at Robert Moses on Wednesday and Thursday mornings. No report since but it is a safe bet that heavy winds on the weekend discouraged even the most diehard casters from making an attempt.

Mike Andreani at **Lindenhurst Bait & Tackle** reported a pair of schoolies for Sonny Yocum at Democrat Point on Wednesday morning. Sonny was more concerned with the fish he lost. It seems he dropped a very large striper right at the rocks the same morning. He reported that tin and white tube combos accounted for the action.

To the west, Gateway Striper Club

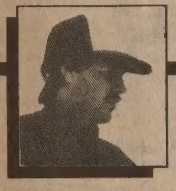
Dan Healy beached this 42 lb. striper near Shoreham on Long Island Sound. Taken on a Redfin, the big bass was weighed at Rocky Point Fishing Stop.

member, Joe Augeri reported that there are still some small bass along the beach near Breezy Point but not many guys are even bothering.

Up on the North Shore, Bill Crownover at **Rocky Point Fishing Stop** reported that Dave Smith closed out the bass season on Wednesday with a 23 pounder taken on a local beach. Bill reported casters taking up to 15 stripers apiece working the evening hours last week between Miller Place and Wading River. The fish were glutting themselves on 6 to 12 inch herring. Most were in the 3 to 8 pound class and being taken on droppers fished ahead of 5½ inch Redfins.

FRESHWATER REPORT

By Tom Schlichter



The freshwater scene charged little since our last report as tidal trout and white perch continue to dominate catches of the few local anglers fishing. The run of crappies at the Wantagh Lakes remains steady and here and there anglers reported encounters with largemouth bass or small pickerel. Upstate, the salmon run seems to be about over but big steelhead and brown trout are still willing. Sunday's blustery weather kept most fishermen around the house rather than on the water.

Bobby Turturello at **Causeway Bait and Tackle,** Wantagh, told us that few anglers stopped by the shop this week and thus he had to conclude that fishing was on the slow side. He did note, however, that live killies were still taking crappies, perch, and an occasional bass or small pickerel at the Twin Lakes. For those still willing to give it a shot, the store is stocked with live killies.

Local action has been slow reports Sal at **Garan's Bait and Tackle,** Merrick, but on the Salmon River upstate, things have heated up with steelhead and brown trout. Sal traveled up to the famed waters last Friday to do a little fly fishing and came away with browns of 8 lbs. and 10.5 lbs. Those were the small fish! Working a #6 muddler minnow at the end of a 12.5 lb. homemade tippet, Sal also connected with a steelie that checked in at a whopping 16 lbs. after a two hour and forty five minute battle. For those interested in learning from a pro, **Garan's** is still running its fly tying classes. All you have to do is call to sign up.

At **Charlie's Bait and Tackle** in Lindenhurst, Jimmy Schaefer knew that Lou Florio had found a few decent brown trout to 18" at Rattlesnake Creek. According to Lou, nightcrawlers and small spinners both worked well. Jimmy added that the shop is still stocked with nightcrawlers.

"White Perch have been spotty in the tidal creeks," reports Dave at **J&R Sports Center,** Oakdale. Some anglers have reported taking 15 to 40 perch to a pound or so while other anglers miss out completely. The best of the action seems to be situated in the deeper holes along Dowling College. Over at Sunken Meadow, the perch seem to be a little more reliable with quite a few in the 12" to 14" class falling to crawlers or small Al Feather's jigs. In Connetquot River and Rattlesnake Creek, trout action has been fare but the fish mostly small.

When the wind lays down, Patchogue Lake has been the hot spot on the freshwater front reports John at **J&J Bait and Tackle,** Patchogue. There anglers are nailing crappies and yellow perch on nightcrawlers and small jigs. Rudy Pinka has done especially well of late. Most of the better action has been situated in the deeper holes which can only be reached by boat. Local tidal waters have seen some white perch action, but nothing to get excited about.

A call to **Tony's Bait and Tackle** in upstate Palaski, revealed that the salmon run is over on the Salmon River save for a few straglers running upstream. According to Sherry, most local anglers have switched over to steelhead and brown trout fishing with good results. Right now, the steelies are averaging 8 to 12 lbs. with a few to 21 lbs. The brown trout are running a little smaller but some do top the 10 lb. mark. Best bait has been spawn sacks with blue the hot color. Some fish are also falling to spoons and plugs.

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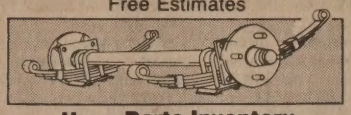

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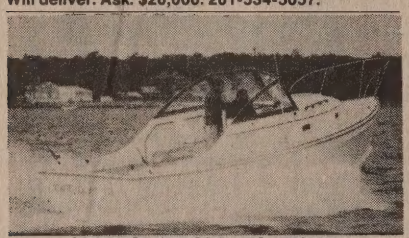

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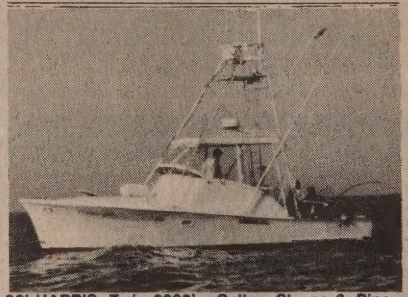

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22' NORTH AMERICAN. Good glass hull for commercial or pleasure fishing. 1986 200 hp Black Max Mercury O/B-used only 2 months. Si-Tex Loran, 2 Furuno recorders, VHF radio. Ask: $6500. Jason: 516-668-3763.

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'88 Year End Blowout. Special Low Prices. 1989 motors standard 3 year Factory Warranties. JENSEN MARINE - 516-226-9739. TFN

25' C-HAWK w/Cuddy, SS rail, 96 gal. fuel tank, 1988 150 hp Suzuki, SS prop. Windshield wipers, bilge pump, 4 rod holders. CG Pkg. FOB. $19,300. Financing avail. 17'-25' Center Console also avail. JENSEN MARINE, Copiague, NY; 516-226-9739.

EVINRUDE

WE'LL BEAT ANY DEALER'S Advertised price and service it, too! AL GROVER'S, Freeport, 516-378-0510.

65' Steel Head/Charter GMs
36' 1984 Harris S/F Cat.
36' 1981 Seahawk Canyon Fish Volvos
35' 1977 Bruno S/F Cat
33' 1981 Columbian S/F Cat 375
33' 1985 Chris Comander 333
43' 1985 Post 6/71 TI's
44' 1982 Stanley GM 8/71
30' 1979 Sisu Volvo Dsl. Loaded
29' 1974 Dyer New Chrys. 440
35' 1970 Chris Comdr. 1976 330 Mercs.
45' 1959 Wood Lobster GM 8/71 Fast.
KARP MARINE, 516-581-3308.

85 21'6" PRIVATEER w/many custom features; '86 150 Yamaha Pro V, 130 hrs. '86 EZ Load Galv. trailer, tandem, brakes, Pwr. winch. Too many extras to list. One-of-a-kind. $14,000. 516-868-1458.

36' PACEMAKER, 1970 Sportfisherman, fly bridge, dual stations. Twin 350 Chevys, 110 Kohler generator. Sleeps 6. VHF, recorder, electric stove/refrig. Hot water heater/shower. Elec. windlass, outriggers. Set for offshore fishing or family boat. Professionally maintained. In water. $13,500/ 516-541-7805.

1986 PRO-LINE 20' Center console, 90 hp Mercury, VHF, CB, Humminbird 4000. Bimini top, outriggers. Many extras. Galv. EZ Load trailer. New boat coming. Ask: $10,500. 516-277-1690.

JERSEY 31' Fiberglass Sedan Cruiser. F/B w/new enclosure, 170 hp diesel, FWC 2½ gals per hr., Salon, Dinette, Galley, head w/shower. Sleeps 6. Eng. & interior reconditioned. Trim tabs Swim platform, VHF, CB, Excl. cond., in water at Northport Marina. $18,500. 516-754-6145.

1985 PRO-LINE 21' Walkaround Cuddy, Excellent Condition, Loaded! Ask: $12,000. 325-1597.

CRICKET II - Fully Equipped Boat & Business. Capt. Frank Mundus Retiring (Avail. On Request). Call: 516-668-2779. TFN

1988 Seawolf 22' Center Console. 200 Merc. and 25 Merc. O/B. Famous variable deadrise hull w/an overwide 8'9" beam. Very dry and stable. T-top w/ full wraparound clear canvas. Long range 127 gal. fuel tank, Raytheon Loran C and VHF radio, w/ Shakespeare antennas. Twin batt., w/switch., outriggers, leaning post w/rocket launcher, professionally rigged, Trim tabs and hydraulic steering. 5 yr. full warranty. Only 20 hrs. on rig, dealer demo. Best offer over $25K. Call John, eves: 516-499-2288 TFN

28' 1986 MAKO 284. One owner, commissioned April 1987, 1 yr. warranty left on twin 200 hp Counter Rotating Yamahas. Rigged tower, radar, Loran, 2 VHF color video, outriggers, rocket launcher, lean post, live well. Yard maintained, 120 hrs. Our Trade. Winter storage paid. Ask: $59,000. PT. BOAT COMPANY, 401-783-8360. #50

25' 1985 GRADY WHITE SAILFISH, Twin 150 Yamahas, Cox Trailer, Fighting Chair, Radar, Color Scope, Loran, VHF, Stereo, Shore Power, Downriggers. $42,500, 203-794-2812, 203-746-6077. #4/ '89

16.2' WAHOO! 1987 50HP Johnson Extended Warranty, Shoreline Trailer, Humminbird 4-ID/DF, Bimini, Mint! $7200. Days: 212-620-3514; Eves: 516-541-3103. #50

FOR SALE

This documented sportfisherman was professionally designed for serious fishing. It was custom crafted by THOMAS MARINE of welded aluminum to work-boat specs and complete in September 1985. The boat is 30' long, including bow pulpit, with a 9' beam. Power is provided by a Volvo Tamd - 60C - 250 hp diesel eng. & 4 bladed SS props. There is under 600 hrs. on the eng., and it cruises at over 20 knots very economically.

Top electronics, loaded. Too much more to list. Included are thousands of dollars worth of additional equip. This boat is an outstanding fishing machine offering excl. value, durability and minimal maintenance. Regretfully selling for health reasons. Owner - Eves: 516-354-2674. #5/'89

EVINRUDE

NEW 1987, 1988 NEW

Jr. - $279; 2.5 - $399; 4 - $459; 6 - $659; 8 - $759; 9.9 - $959; 30 - $1399; 60 - $2199; 70 - $2499; 90 VRO - $2699; 110 - $2999; 140 - $4199; 175 - $4699; 225 - $5399. SEALAND MARINE, 48 Merrick Rd., Amity Harbor, NY 11701. 516-842-1242. We Ship Anywhere. TFN

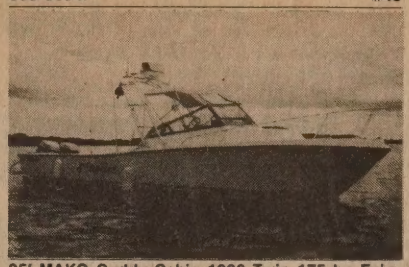
1988 BLACK WATCH 30 Navy blue w/tan decks, twin Cummins 250 hp diesels, pipewelders tower w/sunshade, pipewelders rigger bases, rod holders, Rupp single spreader outriggers, Ries custom canvas, curtains, Raytheon radar & color scope, Dytek temp gauges (2), Icom VHF radios (2), Si-Tex & Raytheons, Lorans, Halogen lights, Custom engine box cushions, Battery charger, hot water, overboard discharge, shower, SW washdown, extra quarter berth - sleeps 4, fast 34 knot top end, 27 knot cruise, Dealer Demo & Tournament Boat, Turn key, completely rigged & ready for everything from bluefish & bluefin. Call NORTHEAST SPORTFISHING 201-223-6464. TFN

48' CHARTER BOAT, LIC. 34 & 2, Current C.G. Certificate, 903 cummins, skw gen., radar, Loran, chromascope, VHF, etc. Loaded. All CG equip. & Tackle, Currently operating south shore of L.I. Turn key operation. First $40,000. Takes it all. 516-422-1713. TFN

Capt. John Alberda's 1979 23' Sea Craft Sceptre Cuddy, 1985 200 hp Mercury O/B, 25 hp aux., full elect., micrologic Loran, Lowrance Recorder, VHF, live bait system, custom Bimini top, and rod holders. Ready for fishing. Must sell - buying bigger boat. Ask: $14,000. 516-626-6796. TFN

1987 PROLINE 17' - Center Console, 110 Evinrude, humminbird 4003 VHF, CB, EZ Loader trailer never used. $9200. 516-889-5579. #49

1986 FORTIER 33' Offshore Model, twin 200 Perkins Diesels, tower, outriggers, 8kw gen., Loran, SSB, Radar, VHF, auto pilot, colorscope, sea water temp., fighting chair, Avon Raft, many extras. Low hrs., Mind Cond. NEW LISTING 516-598-0094. #49



25' MAKO Cuddy Cabin 1986 Twin 175 hp Evinrude. Hydraulic steering, trim tabs, 200 gal. gas, alum. radar arch w/spreader lights, Raytheon 16 mile radar, King 8001 Loran, Apelco 8000 color fish finder, head, VHF, outriggers, tackle station with sink, live well, 300 hrs.+ extras, mind cond. Must sell. Best offer above $30,000. 207-985-3045 after 7 PM.#49

J.C., 31' 1980 653T Diesel 250 Fuel, Full Electronics, Rigged for Offshore Fishing, Lots of Extras. New Boat Under Construction - $35,000. 516-668-5070 or 718-945-2663. #4/'89

1986 FOUR WINNS QUEST 26', 260 hp MerCruiser I/O, Color Video Depthfinder, VHF, Fume Detector, Loran, Full Canvas. Sacrifice, $21,000. 874-8678 after 5PM. #49

SEA OX 26' 1987 Ultimate fishing machine, mint, loaded, customized, too much to detail, Must call and see. Days: 516-273-3636; Eves: 516-549-3989. #8/'89

'77 AQUASPORT 222 Center Console; '87 110 hp Evinrude w/150 hrs; '86 Load Rite double axle trailer w/brakes & power winch; Spray Hood, Bimini Top, VHF, Si-Tex Graph Recorder and 797 Loran C; Plus More, Ready To Go! $11,500 or B.O. 201-896-9459. #50

19' MAKO, 1986 Evinrude 110 hp VRO, CG pkg., Runs Very, Very Good. $4500. 718-236-4747. #3/ '89

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ALL BOATS REDUCED FOR IMMEDIATE SALE
28' '86 BERTRAM, Cust. 1/2 twr, spotless
29' '81 PHOENIX FB SDN
Recent power, clean
29' '82 TIARA
T/230 Mercs., nice
31' '82 JC, heavy elec.
35' HENRIQUES Cust Lobster Dragger
Too much equip to list
36' '69 HATTERAS FB SF
Fresh Crus, twr, chair, more
36' '85 HATTERAS SF
Eqquipt, inquire
TRADES ACCEPTED
LONG TERM FINANCING
STAR ISLAND YACHT CLUB, Montauk Pt, NY, 516-668-5052. #2/'89

22' Chris Craft Cutlass, Center Console, Fiberglass w/teak sole, 1987 350 Engine, windscreen, 2 chairs, outriggers, VHF, DF, Excellent Condition. $6500. 728-3420, Eves. #49

29' SCOTTI CRAFT, Twin 325 hp, Micrologic Loran, SS Radio, X-15 Fish Finder, Eagle DF, Electric Head, Gin Pole, Trim Tabs, Fresh Water, Salt Water Temp., Bilge Pump, AC/DC Refrig., Outriggers, Fishing Chair, Sink, Stove, 200 gal. fuel. Ask: $22,500. Days: 516-671-7884, Eves: 718-843-6457. #50

Continued On Next Page

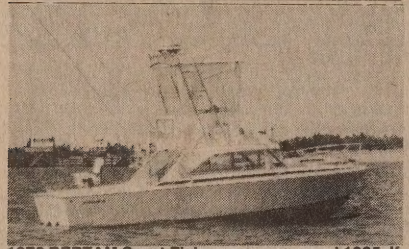
31' BERTAM BAHIA MAR w/custom hardtop, Twin turbo charged Perkins diesels, repowered in 1985. New wiring, Awlgrip paint, anchor windless Northstar Loran, Vigil Radar, custom teak decks, Lowrance recorder and bait freezer. 250 gal. fuel capacity. For the serious fisherman only. In water at Montauk. Just reduced $45,000. 914-834-5153. #2/'89

871 GM Diesel, 3 yrs. old rebuilt, Allison Gear. Must Sell. $6500. 516-668-2056. #3/'89

37' CUSTOM FIBERGLASS Conv. Sedan FB twin V8 FWC Palmers, sleeps 4, head, shower, many extras. Must Sell - Winter Storage Paid. $14,500 or Trade Smaller. 516-744-9546. #2/89

STEIGER CRAFT 25' 1986 w/150 hp Mercury Outboard, 1987 25 hp Evinrude, VHF, DepthFinder, Loran, Windlass, Camper Back - $19,500. LARRY'S LIGHTHOUSE, 516-722-3400. #10/'98

PRIVATEER 24' 1987 Delaware Cabin w/150 hp 1987 Johnson, Full Foam, Bunk Pkg., two ped seats, etc. On display at PORT OF EGYPT, Southold, 516-765-2445. #49



1976 BERTAM Sport Fisherman repowered 1985. If you are looking to move up to an offshore boat that is Economical, Fast and has to be a Bertram, this is a must see. New Boat on way. 516-586-5881. #2/'89

1979 GROVER 26' Diesel, Full Teak, Curtains, Micro Logic 8000, King VHF, 2 Cheaters, White Line Si-Tex, CB, Downrigger. Available for inspection. 516-665-3269, 5-7 PM. Next to your wife you'll love this best! $24,500. #49

IS IT TRUE YOU CAN BUY BOATS FOR $43 Through the U.S. Government? Get the facts today! Call: 1-312-742-1142, Ext. 7161. #49

26' 1976 SILVERTON, 225 hp Chrysler, Radio, Recorder, Fumes Detector, Battery Charger, A/C, Refrig., Trim tabs, Dock Power, Sleeps 4, Galley, Head. $16,000. 718-726-3987. #1/'89

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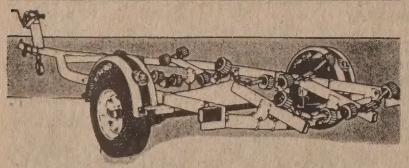
QUICKSILVER Stainless steel propellers. Two 14" diameter x 19" pitch wheels. Used only once. Fits Merc V6 O/B's or Mercruiser stern drives. Original cost-$660; will sacrifice at $475. John, Eves: 516-499-2288.



BOAT TRAILERS: EZ Loader. All sizes in stock. Immediate. Del. Priced right. Trailer hitches installed. SEAHORSE TRAILER, Glen Head, NY; 516-676-5313.

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Remember, if it has anything to do with compasses at all, give me a call! Huge inventory of Ritchie compasses. Expert installation & adjustment. Authorized repair service. I also carry a complete line of binoculars, sextants, clocks, barometers. JENS JACOBS NAUTICAL SERVICE, 516-757-7169.

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ALUMINUM TOWER For boat with 8' beam with 2 station steering - $1250. 18' Aluminum outrigger poles - $100. 516-744-9546. #2/'89

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And other fine tackle at sensible prices. Free catalog. TERMINAL TACKLE CO., Box 427, Kings Park, NY 11754, 516-757-9610. #7/'89

FLUKE KILLER RIGS. Our 16th Year! Fluke commit suicide on this famous Tandem Hook Rig. Especially designed for the meat fisherman. Fluke can't avoid, fully adjustable tail hook. Hand-tied finest materials. Six completely tied rigs - $11.25, Post. Incl. Send Check or M.O. to S. MILLER, 150 Babylon Tpke., Merrick, NY 11566.

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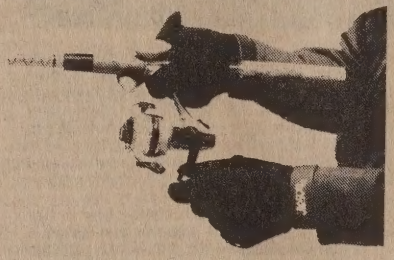

Extend your fishing season. Fish in comfort. Glacier Gloves work like a "wet suite" to keep your hands warm on cold wet days. New "Slit-Finger" design allows you to uncover index finger and thumb when changing lures. Patent pending TOUCH-RITE™ system for easy casting and excellent dexterity. Great for all types of fishing and hunting (duck hunters love them). No other gloves compare. Wonderful Christmas gift for men and women. Superb quality. DEALERS: Bait 'n Tackle, Normandy Beach, 201-793-1144; Betty and Nicks Seaside Park, 201-793-2708; Effinger's, Bound Brook, 201-356-0604; Fishermans Supply, Pt. Pleasant, 201-892-2056; Harry's Army Navy, Robbinsville, 609-585-5450; Ray's, North Plainfield, 201-561-4400; The Surfcaster (mailorder), Darien, CT, 203-866-1289; Steven's Bait, Long Branch, NJ, 201-229-4954; Trigger and Reel, Ewing, 609-695-2818; or contact Glacier Glove, 218 California #204CFJ, Reno, Nevada 89509, 702-322-3134. #49

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AM Trying to locate original molds and equipment to manufacture Tri-Fin Lure. Anyone knowing the whereabouts of this equip., Sold at Auction, are asked to contact Rudy at 203-929-5184 Eves. These lures are too good to be lost forever. #49

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LORAN Numbers for 60 of the area's hottest wrecks, reefs & fishing spots are avail. on 4"x5½" fully laminated card which is waterproof, durable & compact. Simply send $5 to: DEMAPO ENTERPRISES, 1204 Ave. U, Suite 1231, Brooklyn, NY 11229.

Travel to Quincy or other parts of Massachusetts to go saltwater fishing? Then you'll want a copy of "Fishing Massachusetts waters" by Fisherman Editor Tim Coleman. 96-pages w/lots of where-to info on fishing hotspots. Send $5.50 +75 cents post./handl. to: M&T PUBLICATIONS c/o The Fisherman, Two Denison Ave., Mystic, CT 06355. CT residents add 7.5% sales tax.

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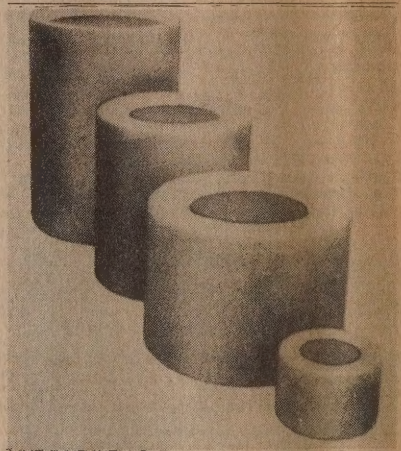
MASTER COASTAL: Available for water deliveries, boat handling & navigation instructions & trips. 516-795-4498.#13/'89



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AVAILABLE AT LAST! Beautiful full color print of artist Gary Patterson's famous painting "Half Day Boat." You won't believe the detail and crazy activities going on aboard. If you've ever fished on party boats, you'll really love this print. 18" x 24"; looks fantastic framed. Only $13.50 + $1.35 p/h to: P. MILLER, 150 Babylon Tpke, Merrick, NY 11566.

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WANTED — EXPERIENCED MATE: Full Time Position, Montauk Charterboat "Mistress Too." Capt. Fritz Hubner, 516-668-2932 Eves. #50

Needed Needed Needed
31' Boat slip needed for 1989 season Babylon, Islip area. Call: 516-968-0736. #49

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STRIPED BASS PIN: Lifelike solid cast metal striper w/large, securely locking pin on the back. Looks great on cap or jacket. Antique silver finish. 3¼" long X 1¼" tall. Send ck. or M.O. $8.95 + $1 p/h to: P. MILLER, 150 Babylon Tpke., Merrick, NY 11566.

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4 Bdrm., 2 Bath Ranch - Upper Balcony Deck off Master Suite - 80' Beach Private Pier - Docking, Fishing, Crabbing, Adjacent Parkland - Reduced $335,000. 516-957-6892. #2/'89

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We, here at **The Fisherman,** feel that the need to introduce youngsters to this healthy and wholesome sport has never been greater. If you agree, and would like to join with us in making the **Send-A-Kid Fishing Program** a success, won't you please send a small donation to help us fund fishing trips for these boys and girls. A donation of $9.00 will cover the cost of a day's fishing for one youngster, but any contribution at all will be greatly appreciated. A listing of the names of all those who contribute to the program will appear in **The Fisherman** at the close of the season.

Yes, I would like to "Send-A-Kid Fishing" this summer. Enclosed is a donation in the amount of $_____

Name _____

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Make checks payable to: "SEND-A-KID FISHING."

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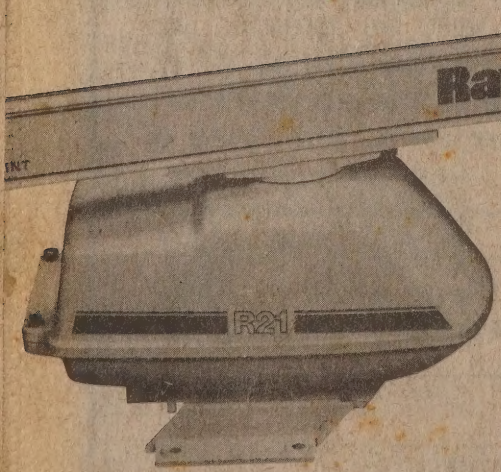
A totally new dimension in radar.

Raytheon breaks out of the world of ordinary radars with units that are smaller because they're better, and better because they embody the very latest in space-age, LSI-circuit miniaturization.

Whether you choose the Raytheon R20 or R21, you will experience combined levels of clarity, definition, brightness and reliability never before available in any size radar. They have seven-inch diagonal screens so cleverly designed they give you target-viewing areas that rival the size of nine-inch radars, yet have enough room for on-screen readouts of Loran TD's or Latitude and Longitude, plus alphanumeric and graphic representations of operating conditions.

Small, lightweight, and needing little power, the rugged, weatherproof Raytheon R20 and R21 Radars are ideal for any boat. They're the first raster scan radar displays that will easily fit into most overhead instrument panels.



An outstanding open-array antenna. While the display units of the R20 and R21 are identical in size and operation, the R21, with its 3-kW transmitter, 3-foot antenna, and 2.8° horizontal beamwidth, provides superb longer-range performance.

High-resolution raster scan displays provide super-bright, chart-like pictures for easy day or night viewing.

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A better-engineered radome. The R20's powerful 3-kW transmitter and printed circuit-board antenna are housed in an ultra-light radome which has an exceptionally low profile. It can't foul your rigging, and at only 20.9 pounds, it's perfect for even the smallest boats. A narrow 4° horizontal antenna beamwidth provides outstanding target resolution.

The R20 and R21 are examples of the high-tech engineering excellence you've come to expect only from Raytheon...the company that introduced the first raster scan radar and set the standards for all who followed. Because at Raytheon, quality starts with fundamentals.

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